

DoD 5010.15.1-M  
VOLUME V



# STANDARDIZATION OF WORK MEASUREMENT

**Defense  
Work  
Measurement  
Standard  
Time  
Data  
Program**

DISTRIBUTION STATEMENT A  
Approved for Public Release  
Distribution Unlimited

19991217 110

## VOLUME V PROCESSING OCCUPATIONS

DTIC QUALITY INSPECTED 4

Reproduced from  
best available copy.

June 1975

Reproduced From  
Best Available Copy



DEPARTMENT OF DEFENSE  
DEFENSE INDUSTRIAL RESOURCES SUPPORT OFFICE  
CAMERON STATION  
ALEXANDRIA, VIRGINIA 22314

CH 1  
DOD 5010.15.1-M  
VOLUME V

DIRSO  
1 Dec 77

REPLY  
REFER TO

CHANGE NO. 1  
DOD 5010.15.1-M

STANDARDIZATION OF WORK MEASUREMENT  
PROCESSING OCCUPATIONS

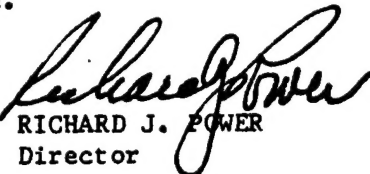
- I. DoD 5010.15.1-M, Volume V, 1 Dec 75, is changed as follows:
- A. Page v, Part Two, Section I, Line 1: Delete the word "three" and substitute "four."
  - B. Page v, Part Two, Section I: Add the following paragraph:

The Verb Index which is an alphabetical listing of the "title" line of the DWMSTDP Operation/Element Description sequenced by the verb, page D-1.

- C. Add pages D-1 thru D-3 after page C-3.

II. This change is an administrative addition of an index for the elements published in the volume.

III. This change sheet will be filed in front of the publication for reference purposes, after changes have been made.

  
RICHARD J. POWER  
Director



**ASSISTANT SECRETARY OF DEFENSE**  
**WASHINGTON, D.C. 20301**

**INSTALLATIONS AND LOGISTICS**

18 Jun 75

**FOREWORD**

This volume of DoD 5010.15.1-M, "Standardization of Work Measurement," is one of a series published under the authority of DoD Directive 5010.15, Defense Integrated Management Engineering System (DIMES). It provides standard time data for Processing Occupations as classified by Department of Labor codes and includes guidelines for uniform application. Some of the tasks covered in the occupations are electroplating, heat treating, cleaning and degreasing, and others of this nature.

Maximum use of the guidelines and standard time data is mandatory at each Department of Defense activity where Labor Performance Standards are developed and applied.

All of the included standard time data have been reviewed and approved by a Joint Service/Agency Standard Time Data Group prior to publication.

A handwritten signature in cursive script, reading "John J. Bennett", is positioned above the printed name.

**John J. Bennett**  
**Acting Assistant Secretary of Defense**  
**(Installations and Logistics)**

**DISTRIBUTION**

**Defense Supply Agency:**  
**3 less 7,9,10**

STANDARD TIME DATA  
FOR  
PROCESSING OCCUPATIONS

TABLE OF CONTENTS

PART ONE - GUIDANCE

	<u>Paragraph</u>	<u>Page</u>
Chapter I - General Information		
Purpose	1.1	1
Scope	1.2	1
Application	1.3	1
Submission of New DWMSTDP Elements	1.4	1
Chapter II - Coding		
General	2.1	2
Types of Codes	2.2	2
Fundamental Standard Time Data	2.3	3
List of Illustrations		
DWMSTDP Coding Structure (Figure 1)		2
Processing Occupations Codes (Figure 2)		4
Work Description of DWMSTDP		
Processing Occupations Codes (Figure 3)		8
Major Categories of Work Used		
in Coding Processing Data (Figure 4)		9
PART TWO - PROCESSING OCCUPATIONS STANDARD TIME DATA		
Section I - Indexes		
A - Occupation Code Index		A-1
B - DWMSTDP Element Index		B-1
C - Noun/Verb Index		C-1
Section II - DWMSTDP Element Listing		1 thru 21

DEFENSE WORK MEASUREMENT STANDARD TIME  
DATA PROGRAM (DWMSTDP)

PROCESSING OCCUPATIONS

PART ONE - GUIDANCE

CHAPTER I - GENERAL INFORMATION

1.1 PURPOSE

This volume of Processing Occupations Standard Time Data is one of ten volumes of standard time data in the 11 volume series included in DWMSTDP. Processing Occupations as categorized by the Department of Labor includes those occupations concerned with refining, mixing, compounding, chemically treating, heat treating, or similarly working materials and products. Knowledge of a process and adherence to formulae or other specifications are required in some degree. Vats, stills, ovens, furnaces, mixing machines, crushers, grinders, and related equipment or machines are usually involved. This volume provides a single DoD source for Standard Time Data which can be used in the development of labor standards for:

1.1.1 Organizations, activities, or functional areas whose primary missions correlate to processing occupations, e.g., an activity whose primary responsibility is plating, chemical cleaning, sandblasting, etc.

1.1.2 For processing operations within organizations, activities, or functional areas engaged in other than processing occupations, e.g., a degreaser operator assigned to an instrument repair shop.

1.1.3 Work performed by personnel whose primary jobs are other than processing, but who may actually do that type work as a part of their jobs, e.g., a packer performing a degreasing operation within a supply activity.

1.2 SCOPE

This publication applies to all military services and defense agencies. The data contained herein will be used to the maximum extent practicable in the development of labor performance standards in compliance with DoD Directive 5010.15.

1.3 APPLICATION

The Processing Occupations Standard Time Data contained in this volume must be applied in accordance with the general information contained in the Basic Volume and the specific instructions contained in this volume.

1.4 SUBMISSION OF NEW DWMSTDP ELEMENTS

All newly developed or existing Processing Occupations Standard Time Data not now included herein will be submitted with back-up motion pattern analysis to the Defense Industrial and Management Engineering Office (DIMEO) for review and possible inclusion in the updating changes to this volume. The Basic Volume contains procedures for submitting this input.

CHAPTER II - CODING

2.1 GENERAL

2.1.1 Information requirements applicable to DWMSTDP have been standardized. Applicable DoD Standard Data Elements have been utilized and all other data elements have been proposed for data representation standardization action in accordance with the provisions of DoD Instruction 5000.12, "Data Elements and Codes Standardization Procedures" and DoD 5000.12-M.

2.1.2 The complete coding structure for a Defense Work Measurement Standard Time Data Program element is explained in the Basic Volume. Figure 1 highlights a typical Occupation Code, Work Category Code, and Work Sub-Category Code for Processing Data.

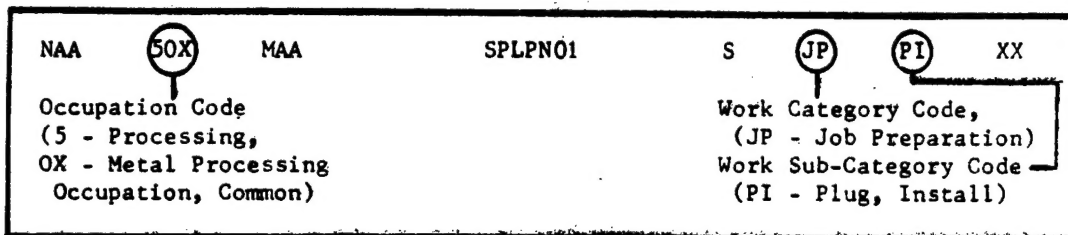


Figure 1. - DWMSTDP Coding Structure

2.2 TYPES OF CODES

2.2.1 Occupation Codes

The Occupation Codes for DWMSTDP elements in this volume conform to the numeric codes of Processing Occupations listed in the U.S. Department of Labor Dictionary of Occupational Titles. All Department of Labor Processing Occupations are shown in Figure 2. Figure 3 identifies the work ascribed to the specific occupations contained in this volume. There are occasions when a standard time data element may have common application to two or more divisions of the total 5 Processing Occupational category. If this is the case, an X is used in both the Occupation Division position (second numeric) and the Group Position (third numeric), e.g., 5XX. If the common application occurs only within the Occupation Division, an X is used in the Group position only (third numeric) e.g., 50X, 52X.

2.2.2 Work Category Code

The two position Work Category Code encircled in Figure 1 further identifies the various types of work performed within the occupation groups. This classification category indicates the major action being performed or major equipment involved in the DWMSTDP element. Figure 4 lists and defines the work categories used in coding Processing Occupations standard time data.

2.2.3 Work Sub-Category Code

The two position Work Sub-Category Code encircled in Figure 1 is a sub-division of the Work Category Code and identifies the object, process, or condition associated with the action or equipment. This code is generally oriented to a noun-verb sequence relationship, e.g., PI is the code for "Plug, Install" in the element description header line. However, if the noun-verb sequence in the element code causes a duplication of the code, the sequence has been modified. The noun-verb sequence will remain in the verbage of the element title whenever possible.

### 2.3 FUNDAMENTAL STANDARD TIME DATA

Every occupation includes general purpose elements such as get, place, read or write which are fundamental to each occupation but not specific to any one. These elements are called "Universal" and are contained in Volume X - Universal Standard Time Data.

5 - PROCESSING OCCUPATIONS

(PROCESSING)

50 Occupations in Processing of Metal  
(Metal Processing)

- 500. Electroplating occupations  
(Electroplating)
- 501. Dip plating occupations  
(Dip plating)
- 502. Melting, pouring, casting, and related occupations  
(Melting, pouring, casting, and related work)
- 503. Pickling, cleaning, degreasing, and related occupations  
(Pickling, cleaning, degreasing, and related work)
- 504. Heat-treating occupations  
(Heat treating)
- 505. Metal spraying, coating, and related occupations  
(Metal spraying, coating, and related work)
- 509. Occupations in processing of metal, n.e.c.  
(Metal processing, n.e.c.)

51 Ore Refining and Foundry Occupations  
(Ore Refining and Foundry Work)

- 510. Mixing and related occupations  
(Mixing and related work)
- 511. Separating, filtering, and related occupations  
(Separating, filtering, and related work)
- 512. Melting occupations  
(Melting)
- 513. Roasting occupations  
(Roasting)
- 514. Pouring and casting occupations  
(Pouring and casting)
- 515. Crushing and grinding occupations  
(Crushing and grinding)
- 518. Molders, coremakers, and related occupations  
(Molding, coremaking, and related work)
- 519. Ore refining and foundry occupations, n.e.c.  
(Ore refining and foundry work, n.e.c.)

52 Occupations in Processing of Food, Tobacco, and Related Products  
(Processing, Food and Related Products)

- 520. Mixing, compounding, blending, kneading, shaping, and related occupations  
(Mixing, compounding, blending, kneading, shaping, and related work)
- 521. Separating, crushing, milling, chopping, grinding, and related occupations  
(Separating, crushing, milling, chopping, grinding, and related work)

n.e.c.-not elsewhere classified

Figure 2 - Processing Occupations Codes



- 522. Culturing, melting, fermenting, distilling, saturating, pickling, aging, and related occupations  
(Culturing, melting, fermenting, distilling, saturating pickling, aging, and related work)
- 523. Heating, rendering, melting, drying, cooling, freezing, and related occupations  
(Heating, rendering, melting drying, cooling, freezing, and related work)
- 524. Coating, icing, decorating and related occupations  
(Coating, icing, decorating, and related work)
- 525. Slaughtering, breaking, curing, and related occupations  
(Slaughtering, breaking, curing, and related work)
- 526. Cooking and baking occupations, n.e.c.  
(Cooking and baking, n.e.c.)
- 529. Occupations in processing of food, tobacco, and related products, n.e.c.  
(Processing, food and related products, n.e.c.)

53 Occupations in Processing of Paper and Related Materials  
(Processing, Paper and Related Materials)

- 530. Grinding, beating, and mixing occupations  
(Grinding, beating, and mixing)
- 532. Cooking and drying occupations  
(Cooking and drying)
- 533. Cooling, bleaching, screening, washing, and related occupations  
(Cooling, bleaching, screening, washing, and related work)
- 534. Calendering, sizing, coating, and related occupations  
(Calendering, sizing, coating, and related occupations)
- 535. Forming occupations, n.e.c.  
(Forming, n.e.c.)
- 539. Occupations in processing of paper and related materials, n.e.c.  
(Processing, paper and related materials, n.e.c.)

54 Occupations in Processing of Petroleum, Coal, Natural and Manufactured Gas, and Related Products  
(Processing, Petroleum and Related Products)

- 540. Mixing and blending occupations  
(Mixing and blending)
- 541. Filtering, straining, and separating occupations  
(Filtering, straining, and separating)
- 542. Distilling, subliming, and carbonizing occupations  
(Distilling, subliming, and carbonizing)
- 543. Drying, heating, and melting occupations  
(Drying, heating, and melting)
- 544. Grinding and crushing occupations  
(Grinding and crushing)
- 546. Reacting occupations, n.e.c.  
(Reacting, n.e.c.)
- 549. Occupations in processing of petroleum, coal, natural and manufactured gas, and related products, n.e.c.  
(Processing, petroleum and related products, n.e.c.)

n.e.c.-not elsewhere classified

Figure 2 - Processing Occupations Codes (Continued)

55 Occupations in Processing of Chemicals, Plastics, Synthetics, Rubber,  
Paint, and Related Products  
(Processing, Chemicals and Related Products)

- 550. Mixing and blending occupations  
(Mixing and blending)
- 551. Filtering, straining, and separating occupations  
(Filtering, straining, and separating)
- 552. Distilling occupations  
(Distilling)
- 553. Heating, baking, drying, seasoning, melting, and heat-treating occupations  
(Heating, baking, seasoning, melting, and heat treating)
- 554. Coating, calendering, laminating, and finishing occupations  
(Coating, calendering, laminating, and finishing)
- 555. Grinding and crushing occupations  
(Grinding and crushing)
- 556. Casting and molding occupations, n.e.c.  
(Casting and molding, n.e.c.)
- 557. Extruding occupations  
(Extruding)
- 558. Reacting occupations, n.e.c.  
(Reacting, n.e.c.)
- 559. Occupations in processing of chemicals, plastics, synthetics, rubber, paint,  
and related products, n.e.c.  
(Processing, chemicals and related products, n.e.c.)

56 Occupations in Processing of Wood and Wood Products  
(Processing, Wood and Wood Products)

- 560. Mixing and related occupations  
(Mixing and related work)
- 561. Wood preserving and related occupations  
(Wood preserving and related work)
- 562. Saturating, coating, and related occupation, n.e.c.  
(Saturating and related work, n.e.c.)
- 563. Drying, seasoning, and related occupations  
(Drying, seasoning, and related work)
- 569. Occupations in processing of wood and wood products, n.e.c.  
(Processing, wood and wood products, n.e.c.)

57 Occupations in Processing of Stone, Clay, Glass, and Related Products  
(Processing, Nonmetallic Minerals and Related Products)

- 570. Crushing, grinding, and mixing occupations  
(Crushing, grinding, and mixing)
- 571. Separating occupations  
(Separating)
- 572. Melting occupations  
(Melting)
- 573. Baking, drying, and heat-treating occupations

n.e.c.-not elsewhere classified

Figure 2 - Processing Occupations Codes (Continued)

- (Baking, drying, and heat treating)
574. Impregnating, coating, and glazing occupations  
(Impregnating, coating, and glazing)
575. Forming occupations  
(Forming)
579. Occupations in processing of stone, clay, glass, and related products, n.e.c.  
(Processing, nonmetallic minerals and related products, n.e.c.)
- 58 Occupations in Processing of Leather Textiles, and Related Products  
(Processing, Leather and Textiles)
580. Shaping, blocking, stretching, and tentering occupations  
(Shaping, blocking, stretching, and tentering)
581. Separating, filtering, and drying occupations  
(Separating, filtering, and drying)
582. Washing, steaming, and saturating occupations  
(Washing, steaming, and saturating)
583. Ironing, pressing, glazing, staking, calendering, and embossing occupations  
(Ironing, pressing, glazing, staking, calendering, and embossing)
584. Mercerizing, coating, and laminating occupations  
(Mercerizing, coating, and laminating)
585. Singeing, cutting shearing, shaving, and napping occupations  
(Singeing, cutting, shearing, shaving, and napping)
586. Felting and fulling occupations  
(Felting and fulling)
587. Brushing and shrinking occupations  
(Brushing and shrinking)
589. Occupations in processing of leather, textiles, and related products, n.e.c.  
(Processing, leather and textiles, n.e.c.)
- 59 Processing Occupations, N.E.C.  
(Processing, N.E.C.)
590. Occupations in processing products from assorted materials  
(Processing, assorted materials)
599. Miscellaneous processing occupations, n.e.c.  
(Miscellaneous processing, n.e.c.)
- n.e.c. - not elsewhere classified

Figure 2 - Processing Occupations Codes (Continued)

<u>DWMSTDP PROCESSING OCCUPATIONS CODES</u>		
<u>Code</u>	<u>Occupation</u>	<u>Work Description</u>
500	Electroplating Occupations (Electroplating)	Covering the surface of objects by electro-deposition or electrolysis
503	Pickling, Cleaning, Degreasing, and Related Occupations (Pickling, Cleaning, Degreasing, and Related Work)	Removing coatings of grease, scale, tarnish, oxide, etc., from metal objects to obtain a clean surface. Cleaning is usually accomplished by subjecting the metal objects to acid baths.
504	Heat-treating Occupations (Heat-treating)	Subjecting metal to heat, cold or chemicals to relieve or redistribute stresses and affect such characteristics as hardness, flexibility and ductility.
505	Metal Spraying, Coating, and Related Occupations (Metal Spraying, Coating, and Related Work)	Covering the surfaces of objects with metal or an accretion of metal and adjuncts in molten or semimolten form by spraying or brushing.
549	Occupations in Processing of Petroleum, Coal, Natural and Manufactured Gas, and Related Products, n.e.c. (Processing Petroleum and Related Products, n.e.c.)	Preparing for commercial use the products of oil shales, oil and gas wells, and coal mines not elsewhere classified.
599	Miscellaneous Processing Occupations, n.e.c. (Miscellaneous Processing, n.e.c.)	Miscellaneous Occupations concerned with processing materials and products, not elsewhere classified.
n.e.c.--not elsewhere classified		

Figure 3 - Work Description of DWMSTDP Processing Occupations Codes

PROCESSING OCCUPATIONS WORK CATEGORY CODES

<u>Work Category</u>	<u>Code</u>	<u>Definition</u>
Clean	CL	The removal of foreign matter by chemical, mechanical, or manual process. (Examples: ultrasonic cleaning, abrasive cleaning, use of solvent, rubbing, wiping, sweeping.)
Disassembly/Assembly	DA	The action(s) required to remove, install or replace assemblies or components parts when the primary purpose is to place an object(s) or part(s) on or into another object or part so that they fit, connect or are secured to each other to form a unit. These actions do not include fabrication of parts or items. This category generally applies to special or higher level data.
Dip	DP	Motions necessary to dip or immerse an object in liquid or paste and/or remove excess. (Examples: dip brush, cloth, stick, parts, hand, finger.)
Job Preparation	JP	The actions required to prepare an object(s), work place, or employee, or any combination of the three for ensuing work. NOTE: Excluded from this category are layout, packaging and machine setup.
Non-threaded Fastener	NF	The permanent or semipermanent holding or locking of mating objects by other than threads or clamping actions.
Object Handling	OH	The process of manually moving an object for the purpose of changing its location, position, or alignment. The movement path may or may not be fixed. The primary purpose of this handling is not to activate another object or device.
Paint	PA	To cover a surface by applying and spreading liquid or paste with a brush, spray gun, or roller. (Examples: paint, varnish, lacquer, shellac, wax.)
Surface Treatment	ST	The application of chemicals to an object when the predominant purpose is to change the composition of its surface.

Figure 4 - Major Categories of Work Used in Coding Processing Occupations Data

<u>PROCESSING OCCUPATIONS WORK CATEGORY CODES</u>		
<u>Work Category</u>	<u>Code</u>	<u>Definition</u>
Vising	VS	The action required to accomplish the nonmanual holding of object(s) with a vise while repairs, modifications, or manufacturing operations are being performed. (Examples: tighten or loosen vise, rotate vise, quick acting vise.)

Figure 4 - Major Categories of Work Used in Coding Processing Occupations Data

DEFENSE WORK MEASUREMENT STANDARD TIME  
DATA PROGRAM (DWMSTDP)

PROCESSING OCCUPATIONS

PART TWO - STANDARD TIME DATA

SECTION I - INDEXES

This provides four indexes as follows:

The Occupation Code Index which includes the page location for each Code in both the DWMSTDP Element Index and the DWMSTDP Element Listing, Page A-1.

The DWMSTDP Element Index which is sequenced according to the DWMSTDP Element Code, pages B-1 through B-3.

The Noun/Verb Index which is an alphabetical listing of the "title" line of the DWMSTDP operation/element description, pages C-1 through C-3.

The Verb Index which is an alphabetical listing of the "title" line of the DWMSTDP Operation/Element Description sequenced by the verb, page D-1.

OCCUPATION CODE INDEX

<u>Code</u>	<u>Occupation</u>	<u>DWMSTDP Element Index</u>	<u>Page</u>	<u>DWMSTDP Element Listing</u>
5XX	Processing, Common	B-1		1
50X	Metal Processing, Common	B-1		2
500	Electroplating Occupations (Electroplating)	B-1		5
503	Pickling, Cleaning, De- greasing, and Related Occupations (Pickling, Clean- ing, Degreasing, and Related Work)	B-1		7
504	Heat-treating Occupations (Heat-treating)	B-2		16
505	Metal Spraying, Coating, and Related Occupations (Metal Spraying, Coating, and Related Work)	B-2		16
549	Occupations in Processing of Petroleum, Coal, Natural and Manufactured Gas, and Related Products, n.e.c. (Processing Petroleum and Related Products, n.e.c.)	B-2		16
599	Miscellaneous Processing Occupations, n.e.c. (Miscellaneous Processing, n.e.c.)	B-2		17



DEFENSE WORK MEASUREMENT STANDARD TIME DATA  
ELEMENT INDEX

OCCUP- ATION	QUALITY	DWMSTD ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
5XX	MAO	MOHRH01	92	BASKET(DIP),HANG ON SUSPENSION BAR	1
5XX	MAO	MOHR001	141	BASKET(WITH PARTS),REMOVE FROM SUSPENSION BAR	
5XX	MAO	MOHHR01	81	HOOK OR RACK,REMOVE FROM SUSPENSION BAR	
5XX	MAO	MOHPMXX	VARIABLE	PART,MOUNT ON SPRING HOOK RACK	
5XX	MAO	MOHPP01	98	PART(SMALL),PLACE ON TREE RACK	
5XX	MAO	MOHPRXX	VARIABLE	PART,REMOVE FROM RACK	
5XX	MAO	MOHPR03	80	PART(LARGE),REMOVE FROM SPRING RACK	
50X	MAA	SDPFAXX	VARIABLE	ERONEL,APPLY BY DIPPING	2
50X	MAO	SJPPA01	723	PUTTY(PLATER),APPLY TO PLUG UP HOLE	
50X	MAA	SJPPDXX	VARIABLE	PART,DIP IN WAX TO MASK FOR PLATING	
50X	MAA	SJPP1XX	TABLE	PLUG(MASKING-LEAD),INSTALL	
50X	MAA	SJPPPXX	VARIABLE	PART,PREPARE TO LOAD FOR PLATING	3
50X	MAA	SJPPRXX	VARIABLE	PLUG(MASKING),REMOVE	
50X	MAA	SJPPSXX	VARIABLE	PLUG(MASKING),SEAT IN HOLE	
50X	MAA	SJPPYXX	VARIABLE	PLUG(RUBBER MASKING),TAKE OUT	4
50X	MAA	SJPRP01	522	PUTTY(PLATERS),REMOVE FROM HOLE	
50X	MAA	SJPS1XX	VARIABLE	SEALANT,INSTALL IN CAVITY	
50X	MAA	SJPSRXX	VARIABLE	SEALANT,REMOVE	
50X	MAA	SOHPPXX	VARIABLE	PART,PLACE IN PLATING TANK	
50X	MAA	SPAEAXX	VARIABLE	ERONEL,APPLY WITH APPLICATOR(TOUCH UP)	
500	MAA	SDPPE01	4400	PART,ETCH(INITAL)	5
500	MAA	SJPA101	1561	ANODE,INSTALL AND REMOVE	
500	MAA	SJPBE01	427	BOOTH(SAND BLAST),ENTER/EXIT	
500	MAA	SJPRTXX	TABLE	ERONEL,TRIM FROM PERIMETER PLATE AREA	
500	MAO	SJPLC01	268	LEAD(ELECTRIC PLATING),CONNECT TO ANODE	
500	MAA	SJPRI01	803	ROBBER(WIPE),INSTALL	6
500	MAA	SJPRRXX	VARIABLE	ROBBER,REMOVE	
500	MAA	SPAMAXX	TABLE	MICROMASK,APPLY TO PART WITH BRUSH	
503	TBA	MCLPBXX	VARIABLE	PART,BLAST(WET OR VAPOR),AND RINSE	7
503	TCA	MCLPB06	9350	PARTS(IN BASKET),BLAST(WET)	
503	MAA	MCLPD01	582	PARTS(IN BASKET),DRAIN	
503	TAA	MCLPRO1	256	PARTS(IN BASKET),RINSE IN MACHINE	
503	TBW	TCLPCXX	TABLE	PART,CLEAN AND AIR DRY	8
503	MAA	SCLCDXX	VARIABLE	COMPONENT(S),DEGREASE	9
503	MAA	SCLOPXX	VARIABLE	PART,DIP TO CLEAN	
503	MAA	SCLOP03	1240	PART,DIP TO CLEAN	10

DEFENSE WORK MEASUREMENT STANDARD TIME DATA  
ELEMENT INDEX

OCCUP- ATION	QUALITY	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
503	FUA	SCLHV01	16792	HARDWARE,VACU-BLAST	10
503	TUA	SCLPRXX	VARIABLE	PART,BLAST(ABRASIVE)IN BOOTH	
503	FUA	SCLPB03	3478	PARTS,BLAST CLEAN WITH GLASS-VERY SMALL PARTS	11
503	FUA	SCLPB04	2922	PARTS,BLAST CLEAN WITH GLASS-SMALL PARTS	
503	FUA	SCLPC01	3634	PART,CLEAN WITH SOLVENT IN SPRAY BOOTH	
503	FUA	SCLPC02	6235	PARTS,CLEAN(ULTRASONIC)	12
503	FUA	SCLPC03	6991	PART,CLEAN IN ULTRASONIC CLEANING VAT	
503	TUA	SCLPC04	3483	PART OR BASKET OF PARTS,CLEAN AND DRY-SPRAY BOOTH	
503	TUA	SCLPD01	4238	PART(OR BASKET OF PARTS),DEGREASE	
503	MAA	SCLPD02	2023	PARTS(IN BASKET),DIP RINSE AFTER SONIC CLEAN	13
503	MAA	SCLPR01	2059	PARTS(IN BASKET),RINSE	
503	MAA	SCLPR02	1158	PARTS(IN BASKET),RINSE(DIP)	
503	MAF	MDPPD01	223	PART,DIP IN SOLVENT TO CLEAN,WEIGHT-LESS THAN 2.5 POUNDS	
503	MAA	MJPPP01	167	PARTS(IN BASKET),PLACE IN CLEANING TANK	
503	MAA	SJPBP01	2183	BLAST CLEAN,PREPARE(AGACITE OR AIR HONE)	14
503	MAA	SJPCLXX	VARIABLE	CLEANER(COEHNI),LOAD/UNLOAD(SMALL PART)	
503	MAA	SJPCL03	532	CLEANER(SONIC),LOAD	
503	MAA	SJPCU01	865	CLEANER(SONIC),UNLOAD(BASKET)	
503	MAA	SJPOU01	414	DRYER,UNLOAD	
503	MAF	SJPHP01	470	HELMET(SANDBLAST),PUT ON AND REMOVE	15
503	MAA	SJPOSXX	VARIABLE	OBJECTS,STRING ON WIRE FOR CLEANING	
503	MAA	SJPPC01	643	PREPARATION,MAKE FOR CLEANING PARTS IN SPRAY BOOTH	
503	MAA	SJPPH01	1234	PARTS(IN BASKET),MOVE FROM SONIC CLEANER TO RINSE TANK	
503	MAA	SJPPP01	228	PARTS(IN BASKET),PLACE IN DRYER	
504	MAA	SOHPB01	1109	PART,BAKE	16
505	MAA	SSTSC01	679	SURFACE(METAL),COAT AND RINSE	
549	MAA	MCLCC01	1537	CYLINDER(COMPRESSED GAS-EMPTY),CONNECT TO VACUUM MACHINE	
549	MUA	SCLCP01	3242	CYLINDER(COMPRESSED GAS),PURGE WITH OXYGEN	
549	MAA	SOACDXX	VARIABLE	CYLINDER(COMPRESSED GAS),DISASSEMBLE(AUTOMATIC WRENCH/HAND WRENCH)	17
549	TUA	MVSCC01	758	CYLINDER(COMPRESSED GAS),CLAMP IN VISE	
549	MAA	MVSVO01	76	VISE(SPECIAL CYLINDER),OPEN OR CLOSE	
599	MAA	MCLPRXX	VARIABLE	PART,RINSE WITH PRESSURE SPRAY	
599	TBA	MCLPSXX	VARIABLE	PARTS,STEAM CLEAN(ROCESS TIME)	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA  
ELEMENT INDEX

OCCUP- ATION	QUALITY	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
599	MAA	SCLCCXX	VARIABLE	COMPONENT,CLEAN WITH VACUUM	18
599	MAA	SCLPBXX	VARIABLE	PART,BRUSH OFF PAINT IN THINNER	
599	MAA	SCLPCXX	VARIABLE	PART,CLEAN WITH SOLVENT AND BRUSH	
599	FUA	SCLPC07	1800	PART,CLEAN WITH PRESSURE SPRAY OF CLEANING AGENT	19
599	TCA	SCLPRO1	7327	PARTS(IN BASKET),RINSE(SPRAY)	
599	TBA	SCLPRO2	1710	PARTS(IN BASKET),RINSE(SPRAY)	
599	MAA	SCLPSXX	VARIABLE	PAINT,STRIP FROM PART	
599	MAA	SCLPS03	1452	PAINT,STRIP FROM INSTRUMENT CASE	
599	MAA	SCLPW01	555	PART,WASH IN TANK WITH BRUSH	20
599	MAA	SDPPDXX	VARIABLE	PART,DIP IN SOLUTION(PAINT REMOVER)	
599	MAA	SJPDQXX	VARIABLE	DOORS(BASKET=HINGED,DOUBLE,SWINGING),OPEN AND CLOSE	
599	MAA	SJGPO1	311	GUN(SPRAY,RINSE),PREPARE TO USE	
599	MAA	SJGPO2	440	GUN(STEAM),PREPARE TO USE	
599	MAA	SJPPP01	937	PART(S),PREPARE TO CLEAN WITH VARSOL	
599	MAA	SJPPP02	787	PART,PREPARE TO TANK CLEAN	21
599	MAO	SJPRHXX	VARIABLE	ROCKS/COMPOUND,MOVE FROM DRUM TO CONTAINER	
599	MAA	SJPSS01	1518	STEAM UNIT,SET UP AND SECURE	
599	MAA	MNFOL01	105	DOOR(TUMBLER),LOCK OR UNLOCK	
599	MAO	MOHDP01	49	DOOR(TUMBLER),POSITION ON TUMBLER	
599	MAO	MOHDP01	39	DOOR(TUMBLER),REMOVE	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA  
NOUN/VERB INDEX

OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP- ATION	DWMSTD ELEMENT	PAGE
ANODE, INSTALL AND REMOVE	1501	500	SJPA101	5
BASKET(DIP), HANG ON SUSPENSION BAR	92	5XX	MOHB01	1
BASKET(WITH PARTS), REMOVE FROM SUSPENSION BAR	141	5XX	MOHB01	1
BLAST CLEAN, PREPARE (AGACITE OR AIR HONE)	2183	503	SJPBP01	14
BOOTH(SAND BLAST), ENTER/EXIT	427	500	SJPBE01	5
CLEANER(COBEHN), LOAD/UNLOAD(SMALL PART)	VARIABLE	503	SJPC1XX	14
CLEANER(SONIC), LOAD	532	503	SJPC103	14
CLEANER(SONIC), UNLOAD(BASKET)	865	503	SJPCU01	14
COMPONENT(S), DEGREASE	VARIABLE	503	SCLCDXX	9
COMPONENT, CLEAN WITH VACUUM	VARIABLE	599	SCLCCXX	18
CYLINDER(COMPRESSED GAS), CLAMP IN VISE	758	549	MVSCC01	17
CYLINDER(COMPRESSED GAS), PURGE WITH OXYGEN	3242	549	SCLCP01	16
CYLINDER(COMPRESSED GAS), DISASSEMBLY(AUTOMATIC WRENCH/HAND WRENCH)	VARIABLE	549	SDACDXX	17
CYLINDER(COMPRESSED GAS-EMPTY), CONNECT TO VACUUM MACHINE	1537	549	MCLCC01	16
DOOR(TUMBLER), LOCK OR UNLOCK	105	599	MNFD01	21
DOOR(TUMBLER), POSITION ON TUMBLER	49	599	MOHDP01	21
DOOR(TUMBLER), REMOVE	39	599	MOHDR01	21
DOORS(BASKET-HINGED, DOUBLE, SWINGING), OPEN AND CLOSE	VARIABLE	599	SJPDQXX	20
DRYER, UNLOAD	414	503	SJPDU01	14
ERENEL, APPLY BY DIPPING	VARIABLE	50X	SDPEAXX	2
ERENEL, APPLY WITH APPLICATOR(TOUCH UP)	VARIABLE	50X	SPAEXX	4
ERENEL, TRIM FROM PERIMETER PLATE AREA	TABLE	500	SJPETXX	5
GUN(SPRAY, PINSE), PREPARE TO USE	311	599	SJPGP01	20
GUN(ISTEAM), PREPARE TO USE	440	599	SJPGP02	20
HARDWARE, VACU-BLAST	16792	503	SCLHV01	10
HELMET(SANDBLAST), PUT ON AND REMOVE	470	503	SJPHP01	15
HOOK OR RACK, REMOVE FROM SUSPENSION BAR	81	5XX	MOHHR01	1
LEAD(ELECTRIC PLATING), CONNECT TO ANODE	268	500	SJPLC01	5
MICROMASK, APPLY TO PART WITH BRUSH	TABLE	500	SPANAXX	6
OBJECTS, STRING ON WIRE FOR CLEANING	VARIABLE	503	SJPOSXX	15
PAINT, STRIP FROM INSTRUMENT CASE	1452	599	SCLPS03	19
PAINT, STRIP FROM PART	VARIABLE	599	SCLPSXX	19
PART(LARGE), REMOVE FROM SPRING RACK	80	5XX	MOHPR03	1
PART(OR BASKET OF PARTS), DEGREASE	4238	503	SCLPD01	12
PART(S), PREPARE TO CLEAN WITH VARSOL	937	599	SJPPP01	20

DEFENSE WORK MEASUREMENT STANDARD TIME DATA  
NOUN/VEAR INDEX

OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP- ATION	UWMSTOP ELEMENT	PAGE
PART(SMALL),PLACE ON TREE RACK	98	5XX	MUMPR01	1
PART,PAKE	1109	504	SCMPB01	10
PART,BLAST(ABRASIVE)IN BOOTH	VARIABLE	503	SCLPBXX	10
PART,BLAST(WET OR VAPOR),AND RINSE	VARIABLE	503	MCLPRXX	7
PART,BRUSH OFF PAINT IN THINNER	VARIABLE	599	SCLPBXX	13
PART,CLEAN AND AIR DRY	TABLE	503	TCLPCXX	3
PART,CLEAN IN ULTRASONIC CLEANING VAT	6991	503	SCLPC03	12
PART,CLEAN WITH PRESSURE SPRAY OF CLEANING AGENT	1800	599	SCLPC07	19
PART,CLEAN WITH SOLVENT AND BRUSH	VARIABLE	599	SCLPCXX	18
PART,CLEAN WITH SOLVENT IN SPRAY BOOTH	3634	503	SCLPC01	11
PART,DIP IN SOLUTION(PAINT REMOVER)	VARIABLE	599	SUPPDXX	20
PART,DIP IN SOLVENT TO CLEAN,WEIGHT-LESS THAN 2.5 POUNDS	223	503	MOPPD01	13
PART,DIP IN WAX TO MASK FOR PLATING	VARIABLE	50X	SJPPDXX	2
PART,DIP TO CLEAN	VARIABLE	503	SCLDPXX	9
PART,DIP TO CLEAN	1240	503	SCLDP03	10
PART,ETCH(INITAL)	6400	500	SURPE01	5
PART,MOUNT ON SPRING HOOK RACK	VARIABLE	5XX	MOMPMXX	1
PART,PLACE IN PLATING TANK	VARIABLE	50X	SOHPPXX	4
PART,PREPARE TO LOAD FOR PLATING	VARIABLE	50X	SJPPXX	3
PART,PREPARE TO TANK CLEAN	787	599	SJPP02	21
PART,REMOVE FROM RACK	VARIABLE	5XX	MUMPRXX	1
PART,RINSE WITH PRESSURE SPRAY	VARIABLE	599	MCLPRXX	17
PART,WASH IN TANK WITH BRUSH	555	599	SCLPY01	20
PART OR BASKET OF PARTS,CLEAN AND DRY-SPRAY BOOTH	3483	503	SCLPC04	12
PARTS(IN BASKET),BLAST(WET)	9350	503	MCLPB00	7
PARTS(IN BASKET),DIP RINSE AFTER SONIC CLEAN	2023	503	SCLPD02	13
PARTS(IN BASKET),DRAIN	582	503	MCLPD01	7
PARTS(IN BASKET),MOVE FROM SONIC CLEANER TO RINSE TANK	1234	503	SJPPM01	15
PARTS(IN BASKET),PLACE IN CLEANING TANK	167	503	MJPP01	13
PARTS(IN BASKET),PLACE IN DRYER	228	503	SJPPQ1	15
PARTS(IN BASKET),RINSE	2059	503	SCLPR01	13
PARTS(IN BASKET),RINSE(DIP)	1158	503	SCLPR02	13
PARTS(IN BASKET),RINSE(SPRAY)	7327	599	SCLPR01	19
PARTS(IN BASKET),RINSE(SPRAY)	1710	599	SCLPR02	19

DEFENSE WORK MEASUREMENT STANDARD TIME DATA  
NOUN/VERB INDEX

OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP- ATION	DWMSTD ELEMENT	PAGE
PARTS(IN BASKET),RINSE IN MACHINE	256	503	MCLPR01	7
PARTS,BLAST CLEAN WITH GLASS-VERY SMALL PARTS	3478	503	SCLPB03	11
PARTS,BLAST CLEAN WITH GLASS-SMALL PARTS	2922	503	SCLPB04	11
PARTS,CLEAN(ULTRASONIC)	6235	503	SCLPC02	12
PARTS,STEAM CLEAN(PROCESS TIME)	VARIABLE	599	MCLPSXX	17
PLUG(MASKING),REMOVE	VARIABLE	50X	SJPPRXX	3
PLUG(MASKING),SEAT IN HOLE	VARIABLE	50X	SJPPSXX	3
PLUG(MASKING-LEAD),INSTALL	TABLE	50X	SJPPIXX	2
PLUG(RUBBER MASKING),TAKE OUT	VARIABLE	50X	SJPPTXX	4
PREPARATION,MAKE FOR CLEANING PARTS IN SPRAY BOOTH	643	503	SJPPC01	15
PUTTY(PLAYER),APPLY TO PLUG UP HOLE	723	50X	SJPPA01	2
PUTTY(PLAYERS),REMOVE FROM HOLE	522	50X	SJPRP01	4
ROBBER(WIRE),INSTALL	805	500	SJPRI01	6
ROBBER,REMOVE	VARIABLE	500	SJPRRXX	6
ROCKS/COMPOUND,MOVE FROM DRUM TO CONTAINER	VARIABLE	599	SJPRHXX	21
SEALANT,INSTALL IN CAVITY	VARIABLE	50X	SJPSIXX	4
SEALANT,REMOVE	VARIABLE	50X	SJPSRXX	4
STEAM UNIT,SET UP AND SECURE	1518	599	SJPSS01	21
SURFACE(METAL),COAT AND RINSE	679	505	SSTSC01	16
WISE(SPECIAL CYLINDER),OPEN OR CLOSE	76	549	MVSV001	17

DEFENSE WORK MEASUREMENT STANDARD TIME DATA  
VERB/NOUN INDEX

OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP- ATION	DWSTDP ELEMENT	PAGE
APPLY ERJNEL BY DIPPING	VARIABLE	50X	SDPEAXX	2
APPLY ERJNEL WITH APPLICATOR(TOUCH UP)	VARIABLE	50X	SPAEXX	4
APPLY MICROMASK TO PART WITH BRUSH	TABLE	500	SPAMAXX	6
APPLY PLATE PUTTY TO PLUG UP HOLE	723	50X	SJPPA01	2
BAKE PART	1109	504	SONPB01	16
BLAST PART(ABRASIVE)IN BOOTH	VARIABLE	503	SCLPBXX	10
BLAST PARTS CLEAN WITH GLASS-SMALL PARTS	2922	503	SCLPB04	11
BLAST PARTS CLEAN WITH GLASS-VERY SMALL PARTS	3470	503	SCLPB03	11
BLAST(WET OR VAPOR)PART AND RINSE	VARIABLE	503	NCLPBXX	7
BRUSH PAINT OFF PART IN THINNER	VARIABLE	599	SCLPBXX	10
CLAMP COMPRESSED GAS CYLINDER IN VISE	758	549	HVSCC01	17
CLEAN COMPONENT WITH VACUUM	VARIABLE	599	SCLCCXX	18
CLEAN PART AND AIR DRY	TABLE	503	YCLPCXX	8
CLEAN PART IN ULTRASONIC CLEANING VAT	6991	503	SCLPC03	12
CLEAN PART OR BASKET OF PARTS AND DRY- SPRAY BOOTH	3483	503	SCLPC04	12
CLEAN PART WITH PRESSURE SPRAY OF CLEANING AGENT	1800	599	SCLPC07	19
CLEAN PART WITH SOLVENT AND BRUSH	VARIABLE	599	SCLPCXX	18
CLEAN PART WITH SOLVENT IN SPRAY BOOTH	3634	503	SCLPC01	11
CLEAN ULTRASONIC PARTS	6235	503	SCLPC02	12
COAT METAL SURFACE AND RINSE	676	505	SSTSC01	16
CONNECT COMPRESSED GAS-EMPTY CYLINDER TO VACUUM MACHINE	1537	549	NCLCC01	16
CONNECT ELECTRIC PLATING LEAD TO ANODE	268	500	SJPLC01	5
DEGREASE COMPONENTS	VARIABLE	503	SCLCDXX	9
DEGREASE PART OR BASKET OF PARTS	4238	503	SCLPD01	12
DIP PART IN SOLUTION(PAINT REMOVER)	VARIABLE	599	SDPPDXX	20
DIP PART IN SOLVENT TO CLEAN,WEIGHT-LESS THAN 2.5 POUNDS	223	503	MDPPD01	13
DIP PART IN WAX TO MASK FOR PLATING	VARIABLE	50X	SJPPDXX	2
DIP PART TO CLEAN	1240	503	SCLDP03	10
DIP PART TO CLEAN	VARIABLE	503	SCLDPXX	9
DIP PARTS IN BASKET AFTER SONIC CLEAN	2023	503	SCLPD02	13
DISASSEMBLE COMPRESSED GAS CYLINDER (AUTOMATIC WRENCH/HAND WRENCH)	VARIABLE	549	SCACDXX	17
DRAIN PARTS(IN BASKET)	582	503	NCLPD01	7
ENTER OR EXIT SAND BLAST BOOTH	427	500	SJPBE01	5
ETCH PART(INITAL)	4400	500	SCPPE01	5
HANG DIP BASKET ON SUSPENSION BAR	92	5XX	MOHBH01	1

DEFENSE WORK MEASUREMENT STANDARD TIME DATA  
VERB/NOUW INDEX

OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP- ATION	CWMSTOP ELEMENT	PAGE
INSTALL AND REMOVE ANODE	1561	500	SJPA101	5
INSTALL MASKING-LEAD PLUG	TABLE	50X	SJPP1XX	2
INSTALL SEALANT IN CAVITY	VARIABLE	50X	SJPS1XX	4
INSTALL WIRE ROBBER	885	500	SJPA101	6
LOAD AND UNLOAD COBEN CLEANER (SMALL PART)	VARIABLE	503	SJPC1XX	14
LOAD SONIC CLEANER	532	503	SJPC103	14
LOCK OR UNLOCK TUMBLER DOOR	105	599	WNFDL01	21
MAKE PREPARATION FOR CLEANING PARTS IN SPRAY BOOTH	643	503	SJPPC01	15
MOUNT PART ON SPRING HOOK RACK	VARIABLE	5XX	MONPMXX	1
MOVE PARTS (IN BASKET) FROM SONIC CLEANER TO RINSE TANK	1234	503	SJPPM01	15
MOVE ROCKS/COMPOUND FROM CRUM TO CONTAINER	VARIABLE	599	SJPRMXX	21
OPEN AND CLOSE BASKET-HINGED, OCUBLE, SWINGING DOORS	VARIABLE	599	SJPD0XX	20
OPEN AND CLOSE SPECIAL CYLINDER VISE	76	549	WVSVO01	17
PLACE PART IN PLATING TANK	VARIABLE	50X	SOHPPXX	4
PLACE PARTS IN BASKET IN CLEANING TANK	167	503	WJPP01	13
PLACE PARTS (IN BASKET) IN DRYER	228	503	SJPP01	15
PLACE SMALL PART ON TREE RACK	92	5XX	MOHPP01	1
POSITION TUMBLER DOOR ON TUMBLER	49	599	POHDP01	21
PREPARE BLAST CLEAN (AGACITE OR AIR HONE)	2123	503	SJPEP01	14
PREPARE PART TO CLEAN TANK	787	599	SJPHP02	21
PREPARE PARTS TO CLEAN WITH VARSOL	537	599	SJPP01	20
PREPARE TO LOAD PART FOR PLATING	VARIABLE	50X	SJPP0XX	3
PREPARE TO USE SPRAY, RINSE GUN	311	599	SJPGP01	20
PREPARE TO USE STEAM GUN	440	599	SJPGP02	20
PURGE COMPRESSED GAS CYLINDER WITH OXYGEN	3242	549	SCLCP01	16
PUT ON AND REMOVE SANDBLAST HELMET	470	503	SJPHP01	15
REMOVE BASKET WITH PARTS FROM SUSPENSION	141	5XX	MOHBR01	1
REMOVE HOOK OR RACK FROM SUSPENSION BAR	81	5XX	MONHE01	1
REMOVE LARGE PART FROM SPRING RACK	80	5XX	MOHPR03	1
REMOVE MASKING PLUG	VARIABLE	50X	SJPRXX	3
REMOVE PART FROM RACK	VARIABLE	5XX	MOHPRXX	1
REMOVE PLATERS PUTTY FROM HOLE	522	50X	SJPRP01	4
REMOVE SEALANT	VARIABLE	50X	SJPSRXX	4
REMOVE TUMBLER DOOR	35	599	MOHCR01	21
REMOVE WIRE ROBBER	VARIABLE	500	SJPRFXX	6
RINSE PART WITH PRESSURE SPRAY	VARIABLE	599	WCLPRXX	17
RINSE PARTS IN BASKET	2059	503	SCLPR01	13



DEFENSE WORK MEASUREMENT STANDARD TIME DATA  
VERB/NOUN INDEX

OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP- ATION	DWMSTOP ELEMENT	PAGE
RINSE PARTS(IN BASKET),SPRAY	7327	599	SCLPR01	15
RINSE PARTS(IN BASKET)DIP	1158	503	SCLPR02	13
RINSE PARTS(IN BASKET)IN MACHINE	256	503	MCLPR01	7
SEAT MASKING PLUG IN HOLE	VARIABLE	50X	SJPPSXX	3
SET UP STEAM UNIT AND SECURE	1518	599	SJPSS01	21
SPRAY RINSE PARTS(IN BASKET)	1710	599	SCLPR02	15
STEAM PARTS CLEAN(PROCESS TIME)	VARIABLE	599	MCLPSXX	17
STRING OBJECTS ON WIRE FOR CLEANING	VARIABLE	503	SJPOSXX	15
STRIP PAINT FROM INSTRUMENT CASE	1452	599	SCLPS03	19
STRIP PAINT FROM PART	VARIABLE	599	SCLPSXX	15
TAKE OUT RUBBER MASKING PLUG	VARIABLE	50X	SJPPTXX	4
TRIM ERODEL FROM PERIMETER PLATE AREA	TABLE	500	SJPETXX	5
UNLOAD DRYER	414	503	SJPDU01	14
UNLOAD SONIC CLEANER(BASKET)	865	503	SJPCU01	14
VACU-BLAST HARDWARE	16752	503	SCLMV01	10
WASH PART IN TANK WITH BRUSH	555	599	SCLPN01	20
WET BLAST PARTS(IN BASKET)	9350	503	MCLPB06	7

DoD 5010.15.1-M  
VOLUME V

DEFENSE WORK MEASUREMENT STANDARD TIME DATA PROGRAM  
PART TWO - PROCESSING OCCUPATIONS STANDARD TIME DATA  
SECTION II - DWMSTDP ELEMENT LISTING

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUPATION	QUALITY	SOURCE CODE	DWMSTEP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NO	5XX	MAD	LDPC-1J	MONHND1	92	BASKET(DIP), HANG ON SUSPENSION BAR STARTS-WITH BASKET HELD IN BOTH HANDS INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE BASKET TO SOLUTION, RELEASE RIGHT HAND HANDLE AND GRASP SUPPORT BAR (LEFT HAND MAINTAINS CONTROL OF BASKET), MOVE BAR THROUGH BASKET HANDLES, LIFT BASKET AND POSITION TO SUSPENSION BAR, RELEASE BAR AND BASKET(SIMO) ENDS-WITH RELEASE BAR AND BASKET CONDITIONS-BASKET AND BAR WEIGH TO 14 POUNDS
NO	5XX	MAD	LDPC1D1	MONHRO1	141	BASKET(WITH PARTS), REMOVE FROM SUSPENSION BAR STARTS-WITH REACH TO BASKET WITH BOTH HANDS INCLUDES-ALL THE MOTIONS NECESSARY TO REACH AND GRASP BASKET BY BOTH HANDLES, LIFT BASKET UP AND REMOVE BAR WITH RIGHT HAND, ASIDE BAR, GRASP HANDLE WITH RIGHT HAND AND LIFT BASKET OUT OF TANK, PLACE ASIDE, RELEASE ENDS-WITH BASKET ASIDE CONDITIONS-WEIGHT TO 14 POUNDS
NO	5XX	MAD	LDPC-1Y	MONHRO1	81	HOOK OR RACK, REMOVE FROM SUSPENSION BAR STARTS-WITH REACH TO HOOK OR RACK INCLUDES-ALL THE MOTIONS NECESSARY TO REACH TO OBJECT SUSPENDED OVER TANK OR VAT, GRASP OBJECT AND LIFT CLEAR OF SUSPENSION BAR, MOVE CLEAR OF TANK OR VAT ENDS-WITH HOOK OR RACK IN HAND CLEAR OF TANK CONDITIONS-WEIGHT TO 10 POUNDS
NO	5XX	MAD	LDPC-1G	MONPRXX VARIABLE	99	PART, MOUNT ON SPRING HOOK RACK STARTS-WITH REACH TO PART INCLUDES-ALL THE MOTIONS NECESSARY TO GET PART AND POSITION TO NOTCHES, MOVE INTO BOTTOM NOTCH AND TOP NOTCH, RELEASE PART ENDS-WITH RELEASE PART CONDITIONS-RACK IS HELD BY LEFT HAND TO STEADY CASE 01 MOUNT SMALL (LESS THAN 2.5 POUNDS) PART, EASY TO HANDLE
					144	02 MOUNT MEDIUM (2.5 TO 10 POUNDS) PART
NO	5XX	MAD	LDPC-1L	MONPPD1	98	PART (SMALL), PLACE ON TREE RACK STARTS-WITH REACH TO PART INCLUDES-ALL THE MOTIONS NECESSARY TO GET PART AND MOVE PART TO TREE RACK, POSITION PART ON RACK AND RELEASE ENDS-WITH PART RELEASED CONDITIONS-PART UP TO 2.5 POUNDS
NO	5XX	MAD	LDPC-1Z	MONPRXX VARIABLE	54	PART, REMOVE FROM RACK STARTS-WITH REACH TO PART ON RACK INCLUDES-ALL THE MOTIONS NECESSARY TO REACH AND GRASP PART, DISENGAGE PART FROM RACK, MOVE PART ASIDE AND RELEASE ENDS-WITH PART ASIDE CONDITIONS-PART WEIGHS TO 2.5 POUNDS CASE 01 REMOVE FROM HANGER RACK-STEADY RACK WITH LEFT HAND
					61	02 REMOVE FROM TREE RACK
NO	5XX	MAD	LDPC1A1	MONPRO3	80	PART (LARGE), REMOVE FROM SPRING RACK STARTS-WITH REACH TO PART ON RACK INCLUDES-ALL THE MOTIONS NECESSARY TO REACH AND GRASP PART ON RACK, MOVE PART OUT OF NOTCHES(4), DISENGAGE FROM RACK, ASIDE PART ENDS-WITH PART ASIDE CONDITIONS-PART WEIGHS 2.5 TO 10 POUNDS

# DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTD ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	50X	MAA	SPLDXX	SOPEAXX	VARIABLE	ERONEL, APPLY BY DIPPING STARTS-WITH REACH TO GET PART INCLUDES-ALL THE MOTIONS NECESSARY TO GET PART OFF BENCH, POSITION BOTTOM END IN ERONEL, ROTATE PART IN ERONEL, REMOVE PART FROM ERONEL AND ROTATE TO DRY, ASIDE PART TO DRIP RACK, REACH TO ERONEL RUNNERS, DISENGAGE ERONEL, REACH BACK TO RUNNERS AND ASIDE ERONEL TO VAT, GET PART OFF DRIP RACK, INVERT AND POSITION HANGER END IN ERONEL, ROTATE PART IN ERONEL, REMOVE PART AND ROTATE TO DRY, EXAMINE COAT, HANG ON COOLING RACK ENDS-WITH HANGER HANGING ON COOLING RACK CASE 01 SMALL PART-TO 10 POUNDS 02 MEDIUM PART-10 TO 30 POUNDS
					1347 1509	
NO	50X	MAO	LDPC61	SJPPA01	723	PUTTY(PLATER), APPLY TO PLUG UP HOLE STARTS-WITH REACH TO PUTTY CAN INCLUDES-ALL THE MOTIONS NECESSARY TO PICK UP PUTTY CAN, REMOVE AND ASIDE LID(HOLDING IN LEFT HAND), DIG PUTTY OUT AND KNEAD WITH RIGHT HAND, RELEASE CAN, REACH TO AND HOLD PART, MOVE RIGHT HAND WITH PUTTY TO PART AND PUSH INTO HOLE, PRESS FLUSH, PUT THUMB ON PUTTY AND WIPE LEVEL, RELEASE PART AND PUTTY, GET AND ASIDE PART, PICK UP PUTTY CAN LID, PLACE ON CAN, ASIDE CAN ENDS-WITH ASIDE CAN CONDITIONS-AVERAGE WEIGHT OF PART IS 17.5 POUNDS
NAA	50X	MAA	CPLPN13	SJPPDXX	VARIABLE	PART, DIP IN WAX TO MASK FOR PLATING STARTS-WITH REACH TO GET PART INCLUDES-ALL THE MOTIONS NECESSARY TO GET PART, OPEN WAX TANK, DIP PART TO SPECIFIED DEPTH(TWICE), LIFT FROM WAX(TWICE), CHECK PART TO ASSURE PROPER COVERAGE ENDS-WITH CHECK COMPLETE CASE 01 SMALL PART 02 MEDIUM PART-INCLUDES PUTTING PART INTO AN OVEN AND REMOVING PART FROM OVEN- ALSO INCLUDES 1500 TNU'S WARMING TIME AND TIME TO PUT ON AND TAKE OFF GLOVES
					1214 5086	
NAA	50X	MAA	SPLPN01	SJPP1XX	TABLE	PLUG(MASKING-LEAD), INSTALL STARTS-WITH REACH TO CLOSED DRAWER INCLUDES-ALL THE MOTIONS NECESSARY TO OPEN DRAWER WITHOUT LATCH, GET CUTTERS, PLIERS, HAMMER AND KNIFE, CLOSE DRAWER, DETERMINE HOLE SIZE, CUT PIECE OF LEAD, ASIDE CUTTERS, POSITION PLUG IN HOLE AND POSITION AND CLOSE PLIERS ON PLUG, EXAMINE FIT, PEEN WITH HAMMER(6 BLOWS), ASIDE PLIERS, GET KNIFE AND TRIM LEAD, EXAMINE, OPEN DRAWER, ASIDE TOOLS TO DRAWER AND CLOSE ENDS-WITH DRAWER CLOSED CONDITIONS-PLUGS TO 1/2 INCH DIAMETER(LEAD)- PREFORMED PLUGS IN CAN-CAN IS PICKED UP AND MOVED TO POSITION FOR USE
						TYPE OF PLUG
						FIRST PLUG A
						EACH ADDITIONAL PLUG B
						FORM PLUG FROM LEAD WIRE
						A 1664 1027
						PREFORMED PLUG (LEAD)
						B 1178 941

# OFFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUPATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION																																				
NAA	500	MAA	CPLEDC7	SOPPE01	4400	PART,ETCH(NITAL) STARTS-WITH REACH TO GET PART INCLUDES-ALL THE MOTIONS NECESSARY TO GET PART AND DIP INTO NITRIC ACID SOLUTION,REMOVE, RINSE PART IN COLD WATER,DIP PART IN HYDRO-CHLORIC ACID,REMOVE,RINSE IN COLD WATER,RINSE IN ALKALINE SOLUTION,AIR DRY PART,EXAMINE PART ENDS-WITH PART EXAMINED CONDITIONS-SMALL OR MEDIUM SIZE PART-TIME TO MOVE PART BETWEEN TANKS AND TO TANKS IS NOT INCLUDED-DRAIN AND TANK TIME NOT INCLUDED																																				
NAA	500	MAA	SPLAR01	SJPAI01	1561	ANODE,INSTALL AND REMOVE STARTS-WITH SELECT ANODE IN STORAGE INCLUDES-ALL THE MOTIONS NECESSARY TO SELECT ANODE,PICK UP AND MOVE INTO POSITION,ALIGN HOLE WITH NOTCH OR STUD,REMOVE AND INSTALL THREE WING NUTS,REMOVE AND ASIDE ANODE ENDS-WITH ASIDE ANODE CONDITIONS-DOES NOT INCLUDE WALK TO GET ANODE AND RETURN																																				
NAA	500	MAA	SCLOU01	SJPBE01	427	BOOTH(SAND BLAST),ENTER/EXIT STARTS-WITH REACH TO DOOR HANDLE INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP AND TURN HANDLE 90 DEGREES TO UNLATCH,PULL HANDLE THRU SLOT AND PULL DOOR OPEN,WALK FOUR PACES THRU DOOR,TURN AND GRASP DOOR,PULL DOOR SHUT,REACH THRU SLOT TO HANDLE,PULL TO SEAT AND TURN 90 DEGREES TO LATCH ENDS-WITH DOOR CLOSED,HAND ON HANDLE																																				
W1	500	MAA	SPLEMXX	SJPETXX	TABLE	ERONEL,TRIM FROM PERIMETER PLATE AREA STARTS-WITH REACH TO PART ON DRIP RAIL INCLUDES-ALL THE MOTIONS NECESSARY TO GET ERONEL COATED PART,GET KNIFE,CUT ERONEL,ASIDE KNIFE,ASIDE ERONEL SCRAP,REPOSITION PART,ASIDE PART TO READY RACK ENDS-WITH PART ASIDE CONDITIONS-PART OVER 30 POUNDS-NOT POSITIONED PRIOR TO CUTTING-INTERNAL TRIMMING AND CUTTING IS DONE BLIND																																				
						<table><tr><td></td><td colspan="3">REMOVE ERONEL FROM</td></tr><tr><td>SIZE OF PART</td><td>EXTERNAL SURFACE</td><td>INTERNAL SURFACE</td><td>EASY DIFFICULT ACCESS ACCESS</td></tr><tr><td></td><td></td><td></td><td>B C</td></tr><tr><td>PART TO 30 POUNDS</td><td></td><td></td><td></td></tr><tr><td>FIRST INCH</td><td>A 716</td><td>1217</td><td>1324</td></tr><tr><td>EACH ADDL.INCH</td><td>B 177</td><td>206</td><td>339</td></tr><tr><td>PART OVER 30 POUNDS</td><td></td><td></td><td></td></tr><tr><td>FIRST INCH</td><td>C 394</td><td>652</td><td>755</td></tr><tr><td>EACH ADDL.INCH</td><td>D 244</td><td>243</td><td>488</td></tr></table>		REMOVE ERONEL FROM			SIZE OF PART	EXTERNAL SURFACE	INTERNAL SURFACE	EASY DIFFICULT ACCESS ACCESS				B C	PART TO 30 POUNDS				FIRST INCH	A 716	1217	1324	EACH ADDL.INCH	B 177	206	339	PART OVER 30 POUNDS				FIRST INCH	C 394	652	755	EACH ADDL.INCH	D 244	243	488
	REMOVE ERONEL FROM																																									
SIZE OF PART	EXTERNAL SURFACE	INTERNAL SURFACE	EASY DIFFICULT ACCESS ACCESS																																							
			B C																																							
PART TO 30 POUNDS																																										
FIRST INCH	A 716	1217	1324																																							
EACH ADDL.INCH	B 177	206	339																																							
PART OVER 30 POUNDS																																										
FIRST INCH	C 394	652	755																																							
EACH ADDL.INCH	D 244	243	488																																							
NC	500	MAA	LDPCK50	SJPLC01	268	LEAD(ELECTRIC PLATING),CONNECT TO ANODE STARTS-WITH REACH TO GET "C" CLAMP INCLUDES-ALL THE MOTIONS NECESSARY TO GET "C" CLAMP,GET ELECTRICAL LEAD,POSITION CLAMP AND LEAD TO PART,TIGHTEN CLAMP ENDS-WITH CLAMP TIGHTEN,RELEASED																																				

# DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	OWNSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	500	MAA	SPLRND1	SJPR101	405	ROBBER(WIRE), INSTALL STARTS-WITH SIMO REACH TO CUTTERS AND WIRE INCLUDES-ALL THE MOTIONS NECESSARY TO GET AND CUT WIRE, ASIDE CUTTERS, POSITION AND HOLD ONE END OF WIRE IN GROOVE OF PART, WAP WIRE 30000 TWICE, EXAMINE, TWIST WIRE WITH DUCKBILLS TO SECURE, HOLD WIRE WITH DUCKBILLS AND TRIM EXCESS, GET SCREWDRIVER AND PRESS END OF WIRE TO FLATTEN, ASIDE SCREWDRIVER, DUCKBILLS ENDS-WITH TOOLS ASIDE CONDITIONS-PARTS TO SIX INCHES DIAMETER
NAA	500	MAA	SPLRRXX	SJPRRX	VARIABLE	ROBBER, REMOVE STARTS-WITH REACH TO GET TOOL INCLUDES-ALL THE MOTIONS NECESSARY TO GET TOOL AND PRY OR LIFT END OF ROBBER FROM GROOVE, GRASP ROBBER AND PULL FROM GROOVE, CUT WIRE, ASIDE ROBBER AND TOOLS AND WIRE ENDS-WITH ASIDE ROBBER AND TOOLS AND WIRE
				446		CASE 01 WIRE ROBBER-CUT AND REMOVE 12 INCHES- FIRST 12 INCHES-LIFT END WITH SCREW- DRIVER-PULL WITH PLIERS
				92		02 WIRE ROBBER-EACH ADDITIONAL 12 INCHES- PULL WITH PLIERS
				323		03 LEAD SOLDER ROBBER-LIFT END WITH KNIFE AND PULL LOOSE WITH PLIERS-FIRST SIX INCHES
				61		04 LEAD SOLDER ROBBER-EACH ADDITIONAL SIX INCHES-PULL LOOSE WITH PLIERS
				767		05 LEAD STRIP ROBBER-CUT TIE DOWN WIRE, PRY UP ROBBER WITH KNIFE, PULL LOOSE WITH PLIERS-FIRST SIX INCHES
				138		06 LEAD STRIP ROBBER-EACH ADDITIONAL SIX INCHES
NAA	500	MAA	SPLPOXX	SPAMAXX	TABLE	MICROMASK, APPLY TO PART WITH BRUSH STARTS-WITH REACH TO CAN OF MICROMASK INCLUDES-ALL THE MOTIONS NECESSARY TO GET CAN OF MICROMASK, REMOVE AND ASIDE CAN COVER, GET PAINT BRUSH FROM SOLVENT, SHAKE SOLVENT OFF BRUSH, DIP BRUSH IN MICROMASK, WIPE OFF EXCESS, APPLY MICROMASK TO SURFACE, RETURN BRUSH TO CAN, REPLACE LID ON MICROMASK CAN ENDS-WITH BRUSH RELEASED IN SOLVENT
						SURFACE TO PAINT INTERNAL    EXTERNAL A            B
ONE SQUARE INCH						
FIRST						A    426            373
EACH ADDL						B    109            84
ONE LINEAR INCH						
SURFACE ADJACENT						
TO EDGE OF						
PLATING						
FIRST						C    522            407
EACH ADDL						D    205            151

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWNSDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	503	MAA	SCLPCXX	SCLCDXX	VARIABLE	<p>COMPONENT(S),DEGREASE</p> <p>STARTS-WITH REACH TO GET GOGGLES</p> <p>INCLUDES-ALL THE MOTIONS NECESSARY TO GET AND PUT ON GOGGLES AND GLOVES,PUT PART/BASKET ON PLATFORM AND STEP UP ON PLATFORM,GET ROLLER, ROLL TANK COVER BACK,MOVE NOZZLE ASIDE AND CONTINUE TO ROLL COVER BACK,REPLACE NOZZLE, STEP TO HOOK,GET HOOK,GET PART OR BASKET AND PLACE ON HOOK,LIFT PART OR BASKET AND STEP TO DEGREASER,LOWER PART OR BASKET INTO DEGREASER,REMOVE HOOK FROM PART OR BASKET AND RAISE HOOK FROM TANK,ASIDE HOOK,CLOSE TANK COVER(MOVE ASIDE AND REPLACE NOZZLE), MOVE TO PLATFORM STEPS,STEP DOWN AND TURN FROM STEPS,TAKE OFF GOGGLES AND GLOVES, ASIDE,GET AND PUT ON GOGGLES AND GLOVES,TURN TO PLATFORM,CLIMB STEPS TO PLATFORM,OPEN COVER AND GET HOOK,HOOK PART OR BASKET IN DEGREASER AND REMOVE FROM TANK,LOWER PART OR BASKET TO FLOOR,REMOVE AND ASIDE HOOK,GET PART OR BASKET AND STEP DOWN FROM PLATFORM,ASIDE PART OR BASKET</p> <p>ENDS-WITH ASIDE PART OR BASKET</p> <p>CONDITIONS-PLACE ADDITIONAL PARTS OR BASKETS ON PLATFORM IS NOT INCLUDED-SPRAYING AND WALKING TO GET PARTS AND EQUIPMENT IS NOT INCLUDED</p> <p>3196 CASE 01 DEGREASE-FIRST PART OR BASKET OF PARTS-40 POUNDS</p> <p>436 02 EACH ADDITIONAL PART OR BASKET OF PARTS-40 POUNDS</p> <p>2447 03 DEGREASE PART OVER 40 POUNDS-TWO MEN PLACE PART/BASKET ON CART AND MOVE CART TO HOIST AND RETURN PART/BASKET TO WORK BENCH-FIRST PART OR BASKET-HOIST TIME NOT INCLUDED</p> <p>733 04 DEGREASE PART OVER 40 POUNDS-TWO MEN-EACH ADDITIONAL PART-HOIST TIME NOT INCLUDED</p>
NAA	503	MAA	SCLPDTX	SCLDPXX	VARIABLE	<p>PART,DIP TO CLEAN</p> <p>STARTS-WITH TURN TO BATH</p> <p>INCLUDES-ALL THE MOTIONS NECESSARY TO TURN AND REACH TO BATH LID HANDLE,RAISE LID AND GET BASKET OUT OF BATH,PLACE BASKET ON RAIL,GET PART FROM CART AND PLACE IN BASKET,LIFT BASKET FROM RAIL AND LOWER INTO VAT,LOWER LID,OPEN VAT LID,REMOVE BASKET WITH PART(S)FROM VAT, POSITION BASKET ON RAIL,DRAIN PARTS,GET PART AND PLACE ON GRILLE IN SPRAY BOOTH,RETURN BASKET TO VAT AND CLOSE LID</p> <p>ENDS-WITH CLOSE VAT LID</p> <p>CONDITIONS-ENW OF PART AND BASKET IS 10 POUNDS-DOES NOT INCLUDE WALKING TO AND FROM CART,TO AND FROM SPRAY BOOTH OR VAT TIME-DIP IS TURCO-CARR SOLUTION-OR EQUAL-NO DRAIN TIME INCLUDED</p> <p>554 CASE 01 DIP FIRST PART</p> <p>111 02 DIP EACH ADDITIONAL PART</p>

# DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUPATION	QUALITY	SOURCE CODE	DOWNSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	503	MAA	SCLPOT3	SCLOP03	1240	<p>PART, DIP TO CLEAN  STARTS-WITH TURN TO VAT  INCLUDES-ALL THE MOTIONS NECESSARY TO TURN TO VAT, OPEN LID, REMOVE LARGE BASKET AND POSITION BASKET ON RAIL, PICK UP SMALL BASKET FROM STACK AND PLACE ON CART, GET CONTAINER OF SMALL PARTS AND DUMP PARTS INTO BASKET, ASIDE CONTAINER, PLACE SMALL BASKET IN LARGE BASKET, LIFT FROM RAIL AND LOWER INTO VAT, CLOSE LID, OPEN VAT LID, REMOVE BASKET OF PARTS, POSITION BASKET ON RAIL AND DRAIN, ASIDE PARTS TO SPRAY BOOTH GRILLE (SMALL BASKET), RETURN LARGE BASKET TO VAT, CLOSE LID, REMOVE PARTS FROM SMALL BASKET AND ASIDE BASKET TO STORAGE  ENDS-WITH ASIDE BASKET  CONDITIONS-ENW OF LARGE BASKET IS 10 POUNDS- SMALL BASKET WITH PARTS WEIGHS TO 10 POUNDS- DOES NOT INCLUDE WALKING TO GET SMALL BASKET, FROM CART TO TANK AND RETURN OR TO AND FROM BOOTH-NO TANK TIME IS INCLUDED-DIP SOLUTION IS TURCO-CARB OR EQUAL-NO DRAIN TIME INCLUDED</p>
NAA	503	FUA	CPLPC03	SCLNV01	16792	<p>HARDWARE, VACU-BLAST  STARTS-WITH REACH TO GET BUSS BARS (TWO)  INCLUDES-ALL THE MOTIONS NECESSARY TO GET TWO BUSS BARS, TWO ANODES AND FIVE HANGERS AND PLACE IN VACU-BLAST, ACTUATE VACU-BLAST AND BLAST PARTS (HARDWARE) TO ASSURE GOOD ELECTRICAL CONTACT, GET AND ASIDE TWO ANODES AND FIVE HANGERS TO BENCH, GET BUSS BARS AND POSITION ON PLATING TANK  ENDS-WITH BUSS BARS IN POSITION ON TANK  CONDITIONS-DOES NOT INCLUDE WALK TO GET HARDWARE OR WALK TO AND FROM VACU-BLAST-15540 THUS PROCESSIVACU-BLAST TIME IS INCLUDED</p>
NAA	503	TUA	OCL9AXX	SCLPBXX	VARIABLE	<p>PART, BLAST (ABRASIVE) IN BOOTH  STARTS-WITH REACH TO OBJECT TO BE BLASTED IN-SIDE BOOTH  INCLUDES-ALL THE MOTIONS NECESSARY TO REACH AND POSITION OBJECT IN BOOTH, OBTAIN NOZZLE, OPEN CONTROL VALVE, REMOVE CONTAMINATION FROM OBJECT, CLOSE CONTROL VALVE, SHAKE PART TO REMOVE EXCESS ABRASIVE, ASIDE PART IN BOOTH  ENDS-WITH ASIDE PART  CONDITIONS-CLEAN PARTS TO FIVE SQUARE FEET=PER SQUARE FOOT BLASTED (12 INCHES X 12 INCHES)-SEED OR GARNET ABRASIVE=INCLUDES PRORATED ADDITION OF ABRASIVE MATERIAL TO BOOTH-SIMPLE SURFACE IS DEFINED AS READILY ACCESSIBLE REQUIRING LITTLE OR NO REPOSITIONING DURING CLEANING-COMPLEX SURFACE IS DEFINED AS SURFACE HAVING SOME RECESSED, RESTRICTED OR DIFFICULT ACCESS AREAS REQUIRING REPOSITIONING OF THE OBJECT DURING CLEANING (PANGBORN REACH-IN BOOTH)  CASE 01 BLAST SQUARE FOOT-SIMPLE SURFACE  02 BLAST SQUARE FOOT-COMPLEX SURFACE</p>

259  
383



DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	CCUP- ATION	QUALITY	SOURCE CODE	OWHSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFE	503	MAA	01TITKJ	SCLPD02	2023	<p>PARTS(IN BASKET),DIP RINSE AFTER SONIC CLEAN  STARTS-WITH REACH TO SONIC CLEANER LID HANDLE  INCLUDES-ALL THE MOTIONS NECESSARY TO OPEN  SONIC CLEANER LID,REMOVE BASKET OF PARTS,DRAIN  BASKET OF PARTS,PLACE BASKET ON ADJOINING TANK  OR BENCH,CLOSE SONIC CLEANER LID,PICK UP  BASKET OF PARTS AND PLACE NEAR RINSE TANK,OPEN  RINSE TANK LID, PLACE BASKET OF PARTS IN FLUID  AND AGITATE,REMOVE FROM FLUID,SET DOWN NEAR  TANK,CLOSE RINSE TANK LID  ENDS-WITH RINSE TANK LID CLOSED  CONDITIONS-BASKET OF PARTS WEIGHS 10 TO 20  POUNDS-LIDS 2.5 TO 10 POUNDS-WALK TO CLEANER  TANK AND BETWEEN CLEANER AND RINSE TANK NOT  INCLUDED</p>
FFE	503	MAA	10FEGKD	SCLPR01	2059	<p>PARTS(IN BASKET),RINSE  STARTS-WITH REACH TO HANDLES OF BASKET  INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP  AND RAISE FOLDED HANDLES OF BASKET,RAISE  BASKET FROM CLEANER TANK,TILT BASKET TO DRAIN,  PLACE BASKET ON EDGE OF TANK,GET RINSE TANK  DRAIN PLUG AND SEAT IN DRAIN HOLE,ARISE,GET  BASKET OF PARTS AND PLACE IN RINSE TANK,LOWER  TANK LID,TURN ON SWITCH,TURN OFF SWITCH,RAISE  LID,GET BASKET HANDLES AND MOVE BASKET IN  FLUID TO AGITATE,REMOVE BASKET FROM FLUID,  DRAIN,PLACE BASKET ON EDGE OF TANK,GET DRAIN  PLUG AND REMOVE FROM DRAIN HOLE,POSITION  SPLINE ON DRAIN,ARISE  ENDS-WITH ARISE FROM BEND  CONDITIONS-BASKET OF PARTS HAS ENW OF 20  POUNDS-LID HAS ENW OF 10 POUNDS</p>
FFE	503	MAA	10FEGKJ	SCLPR02	1158	<p>PARTS(IN BASKET),RINSE(DIP)  STARTS-WITH REACH TO GET BASKET OF PARTS  INCLUDES-ALL THE MOTIONS NECESSARY TO PICK UP  BASKET,AND PLACE ON ADJOINING TANK,RAISE RINSE  TANK LID,GET BASKET OF PARTS,PLACE IN FLUID  AND MOVE BASKET IN FLUID TO AGITATE,REMOVE  BASKET FROM FLUID,PLACE BASKET ON ADJOINING  TANK,LOWER RINSE TANK LID,RELEASE LID  ENDS-WITH RELEASE RINSE TANK LID-CLOSED  CONDITIONS-DOES NOT INCLUDE WALK WITH BASKET  TO RINSE TANK-ENW OF BASKET OF PARTS IS 20  POUNDS-ENW OF TANK LID IS 10 POUNDS-AGITATE  FLUID WITH SIX MOVES(SIX INCHES EACH)</p>
AF	503	MAF	76	40PPD01	223	<p>PART,DIP IN SOLVENT TO CLEAN,WEIGHT-LESS THAN  2.5 POUNDS  STARTS-WITH PART IN HAND  INCLUDES-ALL MOTIONS NECESSARY TO MOVE PART  INTO SOLVENT,SWISH PART BACK AND FURTH TO  CLEAN,REMOVE PART FROM SOLVENT,AND SHAKE TO  REMOVE SOLVENT AND DRY  ENDS-WITH PART IN HAND</p>
FFE	503	MAA	10FEGKH	NJPPP01	167	<p>PARTS(IN BASKET),PLACE IN CLEANING TANK  STARTS-WITH BASKET HANDLES IN HAND  INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE  BASKET OF PARTS OVER TANK,LOWER TO BOTTOM  ENDS-WITH BASKET AT BOTTOM OF TANK  CONDITIONS-ENW OF BASKET OF PARTS IS 20 POUNDS</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	CCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFE	503	MAA	RLGJP87	SJP8P01	2183	<p>BLAST CLEAN, PREPARE (AGACITE OR AIR HONE)  STARTS-WITH REACH TO SLIDING DOOR  INCLUDES-ALL THE MOTIONS NECESSARY TO OPEN  BLAST BOOTH DOOR, AND ENTER BOOTH, CLOSE DOOR,  WALK TWO PACES IN BOOTH, WALK SIX PACES TO  BASKET ENTRY DOOR, RAISE DOOR, GET BASKET OF  PARTS, PLACE BASKET ON TURNTABLE, MAKE DIRECTION  CHANGE OF TURNTABLE, CLOSE ENTRY DOOR, PUT ON  HOOD AND GLOVES, TURN BLAST MACHINE ON AND OFF,  WALK FIVE PACES TO BASKET EXIT DOOR, PUSH DOOR  UP, GET BASKET OF PARTS, PLACE ON CONVEYOR AND  PUSH OUT BOOTH, CLOSE EXIT DOOR, WALK TWO PACES  TO BOOTH DOOR AND OPEN DOOR, STEP OUT OF BOOTH  AND CLOSE DOOR  ENDS-WITH CLOSE BOOTH DOOR</p>
FFE	503	MAA	OIGCC01	SJPC1XX	VARIABLE	<p>CLEANER (COREHNI), LOAD/UNLOAD (SMALL PART)  STARTS-WITH REACH TO HOLDER  INCLUDES-ALL THE MOTIONS NECESSARY TO POSITION  HOLDER, GET TWEEZERS, PICK UP PART (SMALL) AND  PLACE ON HOLDER, ASIDE TWEEZERS, GET AND PLACE  HOLDER WITH PART IN CLEANER, TURN ON CLEANER,  TURN OFF DRYER, REMOVE HOLDER FROM CLEANER, GET  TWEEZERS, REMOVE AND ASIDE PART FROM HOLDER,  ASIDE TWEEZERS  ENDS-WITH ASIDE TWEEZERS  CASE 01 LOAD AND UNLOAD FIRST PART  81 CASE 02 LOAD AND UNLOAD EACH ADDITIONAL PART  UP TO CAPACITY OF HOLDER</p>
FFE	503	MAA	IOFEGKA	SJPC103	532	<p>CLEANER (SONIC), LOAD  STARTS-WITH REACH TO GET BASKET OF PARTS  INCLUDES-ALL THE MOTIONS NECESSARY TO PICK UP  A BASKET OF PARTS, PLACE BASKET ON LID OF RINSE  TANK, OPEN CLEAN LID, GET BASKET AND PLACE IN  CLEANER, LOWER BASKET TO BOTTOM OF TANK, CLOSE  TANK LID, SET TIMER  ENDS-WITH TIMER SET  CONDITIONS-DOES NOT INCLUDE WALKING WITH  BASKET TO CLEAN-INCLUDES NECESSARY WALKING AT  CLEANER TO MOVE BETWEEN LID AND BASKET-BASKET  OF PARTS HAS ENW OF 20 POUNDS-LID HAS ENW OF  10 POUNDS</p>
FFE	503	MAA	IOFEGKI	SJPCU01	865	<p>CLEANER (SONIC), UNLOAD (BASKET)  STARTS-WITH REACH TO CLEANER LID  INCLUDES-ALL THE MOTIONS NECESSARY TO RAISE  CLEANER LID, GET AND RAISE BASKET HANDLES, MOVE  BASKET IN FLUID TO AGITATE, REMOVE BASKET FROM  FLUID, PLACE BASKET ON LID OF ADJOINING TANK,  LOWER CLEANER LID, RELEASE LID  ENDS-WITH RELEASE LID  CONDITIONS-ENW OF BASKET PARTS IS 20 POUNDS,  ENW OF LID IS 10 POUNDS</p>
FFE	503	MAA	IOFEGKF	SJPCU01	414	<p>DRYER, UNLOAD  STARTS-WITH REACH TO DRYER SWITCH  INCLUDES-ALL THE MOTIONS NECESSARY TO TURN OFF  DRYER SWITCH, RAISE DRYER LID, GET AND RAISE  FOLDED HANDLES ON BASKET OF PARTS, REMOVE  BASKET OF PARTS FROM DRYER, PLACE BASKET ON  RINSE TANK LID, CLOSE DRYER LID, GET BASKET FROM  DRYER LID AND PLACE ON WORKBENCH  ENDS-WITH ASIDE BASKET OF PARTS ON WORKBENCH  CONDITIONS-DOES NOT INCLUDE WALKING TO DRYER  AND FROM DRYER TO WORKBENCH-DOES INCLUDE MOVES  NECESSARY TO ASIDE BASKET, CLOSE LID AND GET  BASKET AGAIN-BASKET OF PARTS HAS ENW OF 20  POUNDS-DRYER LID HAS ENW OF 10 POUNDS</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	OWNSTDP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION
VF	503	MAF	3236	SJPH01	470	<p>HELMET(SANDBLAST),PUT ON AND REMOVE STARTS-WITH REACH TO HELMET INCLUDES-ALL MOTIONS NECESSARY TO GET HELMET, GET CLOTH FROM POCKET,WIPE VISION PORT,RETURN CLOTH TO POCKET,PLACE HELMET OVER HEAD,FASTEN WAIST BUCKLE,FASTEN CHEST BUCKLE,ADJUST CLOTH BIB:UNSNAP WAIST BUCKLE,UNSNAP CHEST BUCKLE, AND REMOVE,BEND AND RELEASE HELMET ON FLOOR, ARISE ENDS-WITH ARISE FROM BEND</p>
FFE	503	MAA	DIGCG03	SJPOSXX	VARIABLE	<p>OBJECTS,STRING ON WIRE FOR CLEANING STARTS-WITH REACH TO GET DYKES INCLUDES-ALL THE MOTIONS NECESSARY TO GET DYKES AND CUT LENGTH OF WIRE FROM ROLL,ASIDE DYKES,GET AND PLACE OBJECT OVER WIRE,PULL WIRE OVER OBJECT AND PULL SNUG,GET TWO ENDS OF WIRE AND TWIST OBJECT AND WIRE TO SECURE,PLACE STRING OVER ARM,PLACE STRING OF OBJECTS ON BENCH ENDS-WITH STRING OF OBJECTS ASIDE CONDITIONS=OBJECTS WEIGH 2.5 TO 10 POUNDS=DOES NOT INCLUDE WALKING TO GET OBJECTS,WIRE OR TO BENCH TO ASIDE STRING CASE 01 STRING FIRST OR ONLY OBJECT 02 STRING EACH ADDITIONAL OBJECT</p>
					561 223	
FFF	503	MAA	GJPPCA1	SJPPC01	643	<p>PREPARATION,MAKE FOR CLEANING PARTS IN SPRAY BOOTH STARTS-WITH REACH TO FACE SHIELD INCLUDES-ALL MOTIONS NECESSARY TO GET AND PUT ON FACE SHIELD,GET AND PUT ON CLOSE FITTING RUBBER GLOVES,AND TURN FAN SWITCH ON:AND TURN FAN SWITCH OFF,REMOVE AND ASIDE GLOVES,AND REMOVE AND ASIDE FACE SHIELD ENDS-WITH RELEASE OF FACE SHIELD</p>
FFE	503	MAA	10TEGKC	SJPPM01	1234	<p>PARTS(IN BASKET),MOVE FROM SONIC CLEANER TO RINSE TANK STARTS-WITH GET HANDLE OF RINSE TANK LID INCLUDES-ALL THE MOTIONS NECESSARY TO RAISE RINSE TANK LID,GET AND OPEN SONIC CLEANER LID,REACH AND GET HANDLES(SIMO)OF BASKET OF PARTS,RAISE HANDLES,MOVE BASKET FOUR TIMES IN FLUID TO AGITATE,REMOVE BASKET FROM SONIC CLEANER,PLACE ON TANK RIM,DRAIN PARTS,PLACE BASKET INTO RINSE TANK,FOLD HANDLES(SIMO),GET RINSE TANK LID HANDLE AND CLOSE LID,TURN ON RINSE SWITCH,TURN OFF SWITCH,GET RINSE TANK LID HANDLE AND OPEN LID ENDS-WITH LID OPEN,HAND ON HANDLE CONDITIONS=DOES NOT INCLUDE WALKING TO RINSE TANK OR RETURN TO WORKBENCH=WALKING OR SIDE- STEPS BETWEEN TANKS IS INCLUDED(THREE SIDE- STEPS)-BASKET OF PARTS ENW IS 20 POUNDS=LIDS ENW IS 10 POUNDS</p>
FFE	503	MAA	10TEGKE	SJPPP01	228	<p>PARTS(IN BASKET),PLACE IN DRYER STARTS-WITH REACH TO DRYER LID INCLUDES-ALL THE MOTIONS NECESSARY TO GET LID HANDLE AND OPEN DRYER LID,GET BASKET OF PARTS, AND PLACE IN DRYER,FOLD BASKET HANDLES(SIMO), GET LID HANDLE AND CLOSE LID,REACH AND TURN ON DRYER ENDS-WITH TURN ON DRYER SWITCH CONDITIONS=DOES NOT INCLUDE WALKING TO RINSE TANK,DRYER,BETWEEN TANK AND DRYER OR RETURN TO WORKBENCH=ENW OF BASKET OF PARTS IS 20 POUNDS=ENW OF LID IS 10 POUNDS</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY CODE	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	504	MAA	SPLPH01	SOMPRO1	1109	<p>PART,BAKE</p> <p>STARTS-WITH REACH TO GET GLOVES</p> <p>INCLUDES-ALL THE MOTIONS NECESSARY TO GET AND PUT ON GLOVES,OPEN OVEN DOOR,GET PART AND PUT IN OVEN,CLOSE OVEN DOOR,REMOVE AND ASIDE GLOVES,GET AND PUT ON GLOVES,OPEN OVEN DOOR, REMOVE PART FROM OVEN AND ASIDE,CLOSE OVEN DOOR,REMOVE AND ASIDE GLOVES,GET PENCIL FROM POCKET HOLDER,RECORD TIME OUT OF OVEN,RETURN PENCIL TO POCKET</p> <p>ENDS-WITH PENCIL RETURNED TO POCKET</p> <p>CONDITIONS-PART WEIGHS TO 30 POUNDS-DOES NOT INCLUDE PROCESS(BAKE)TIME</p>
NAA	505	MAA	JACMD01	SSTSC01	679	<p>SURFACE(METAL),COAT AND RINSE</p> <p>STARTS-WITH REACH TO WATER HOSE</p> <p>INCLUDES-ALL THE MOTIONS NECESSARY TO GET WATER HOSE,MOVE HOSE TO SURFACE TO BE RINSED AND MOVE OVER SURFACE TO COVER(FOUR MOVES) ASIDE WATER HOSE,GET BRIGHT DIP HOSE AND MOVE TO WORK,MOVE OVER SURFACE(FOUR TIMES)TO COVER, ASIDE BRIGHT DIP HOSE,GET WATER RINSE HOSE AND RINSE OFF BRIGHTENER(DIFFICULT TO REMOVE-MOVE HOSE NINE TIMES OVER SURFACE),ASIDE HOSE,GET ALODINE SPRAY HOSE,MOVE TO SURFACE,MOVE SPRAY (NINE TIMES)OVER SURFACE TO AGITATE,ASIDE HOSE AND GET RINSE WATER HOSE,RINSE OFF ALODINE WITH FOUR MOVES OVER SURFACE,ASIDE HOSE</p> <p>ENDS-WITH ASIDE ALODINE RINSE HOSE</p> <p>CONDITIONS-DOES NOT INCLUDE WALK TO GET AND RETURN WITH HOSE</p>
NAA	549	MAA	NOYCC02	MCLCC01	1537	<p>CYLINDER(COMPRESSED GAS-EMPTY),CONNECT TO VACUUM MACHINE</p> <p>STARTS-WITH REACH TO CYLINDER VALVE</p> <p>INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP AND PULL VALVE THROUGH HOLE IN OVEN DOOR,GET VACUUM HOSE AND CONNECT TO CYLINDER VALVE,OPEN CYLINDER VALVE,OPEN HOSE VALVE,TURN ON VACUUM PUMP,TURN ON OVEN,CHECK VACUUM READING FOUR TIMES,TURN OFF ALL VALVES,VACUUM PUMP AND OVEN</p> <p>ENDS-WITH ALL VALVES,PUMP AND OVEN OFF</p> <p>CONDITIONS-CYLINDER IS IN OVEN AT START AND END-DOES NOT INCLUDE WALKING TO AND FROM OVEN TO CHECK OPERATION-DOES NOT INCLUDE PROCESS TIME TO PUMP DOWN VACUUM</p>
NAA	549	MUA	NOYCC02	SCLCP01	3242	<p>CYLINDER(COMPRESSED GAS),PURGE WITH OXYGEN</p> <p>STARTS-WITH REACH TO GET TOOL</p> <p>INCLUDES-ALL THE MOTIONS NECESSARY TO GET TOOL AND REMOVE SAFETY CAP FROM CYLINDER VALVE, REACH AND GET PURGE HOSE,CONNECT TO VALVE,OPEN VALVE ON CYLINDER,OPEN MANIFOLD VALVE,PURGE CYLINDER WITH OXYGEN,CLOSE CYLINDER AND MANIFOLD VALVE,DISCONNECT AIR HOSE FROM VALVE, ASIDE HOSE,GET TOOL AND SAFETY CAP,INSTALL CAP AND TIGHTEN,ASIDE TOOL,ASIDE CYLINDER</p> <p>ENDS-WITH ASIDE CYLINDER</p> <p>CONDITIONS-EMPTY CYLINDER WEIGHS TO 50 POUNDS-PROCESS TIME TO PURGE IS 600 TMUS</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	549	MAA	NOYCRO3	SDACDXX	VARIABLE	<p>CYLINDER (COMPRESSED GAS), DISASSEMBLE (AUTOMATIC WRENCH/HAND WRENCH)</p> <p>STARTS-WITH PLACE CYLINDER IN VISE</p> <p>INCLUDES-ALL THE MOTIONS NECESSARY TO GET CYLINDER, GET WRENCH AND PLACE ON VALVE, REMOVE VALVE, ASIDE TOOL, INSPECT VALVE AND CYLINDER INTERIOR WITH FLASHLIGHT, REMOVE CYLINDER FROM VISE AND ASIDE</p> <p>ENDS-WITH ASIDE CYLINDER</p> <p>CONDITIONS-CYLINDER WEIGHS TO 20 POUNDS</p> <p>2071 CASE 01 DISASSEMBLE WITH AUTOMATIC WRENCH- PROCESS TIME (AUTO WRENCH)-200 TMUS INCLUDED</p> <p>2371 02 DISASSEMBLE WITH HAND WRENCH</p>
NAA	549	TUA	NOYCT02	MVSCC01	758	<p>CYLINDER (COMPRESSED GAS), CLAMP IN VISE</p> <p>STARTS-WITH REACH TO VISE PIN</p> <p>INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP, REMOVE AND ASIDE VISE PIN, SWING VISE PIN OPEN, WALK 10 FEET TO CYLINDER STORAGE, GET CYLINDER AND ROLL 10 FEET INTO VISE, SWING VISE SECTION CLOSED, REPLACE PIN IN VISE, TIGHTEN VISE</p> <p>ENDS-WITH HAND ON VISE HANDLE</p> <p>CONDITIONS-CYLINDER OVER 30 POUNDS</p>
NAA	549	MAA	NOYVQ01	MVSVD01	76	<p>VISE (SPECIAL CYLINDER), OPEN OR CLOSE</p> <p>STARTS-WITH REACH TO VISE HANDLE</p> <p>INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP HANDLE AND LOOSEN OR TIGHTEN (AVERAGE DISTANCE OF 1/2 INCH) BY TURNING HANDLE, RELEASE HANDLE</p> <p>ENDS-WITH RELEASE HANDLE</p>
FFE	599	MAA	OIGSRL3	MCLPRXX	VARIABLE	<p>PART, RINSE WITH PRESSURE SPRAY</p> <p>STARTS-WITH PART IN HAND</p> <p>INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE PART TO TANK, HOLD PART AND TURN DURING RINSE TO COVER ALL SURFACES, SHAKE PART TO REMOVE RESIDUE AFTER RINSE, LAY PART ASIDE</p> <p>ENDS-WITH HAND ON PART</p> <p>CONDITIONS-NO WALKING INCLUDED</p> <p>288 CASE 01 PART-2.5 TO 10 POUNDS</p> <p>228 02 PART-LESS THAN 2.5 POUNDS</p>
FFD	599	TBA	GECCHSX	MCLPSXX	VARIABLE	<p>PARTS, STEAM CLEAN (PROCESS TIME)</p> <p>STARTS-WITH STEAM VALVE OPEN, NOZZLE IN HAND</p> <p>INCLUDES-ALL THE TIME AND MOTIONS NECESSARY TO STEAM PART, RACK OR BASKET OF PARTS</p> <p>ENDS-WITH STEAM VALVE OPEN</p> <p>5377 CASE 01 RACK OF PARTS, PERFORATED PLATE OR SIX HOOK RACK LOADED WITH PARTS</p> <p>1445 02 MEDIUM PART</p> <p>3750 03 LARGE PART</p> <p>8217 04 VERY LARGE PART</p> <p>5327 05 LARGE BASKET OF PARTS-1 1/2 X 3 1/2 X 3 1/2 TO 2 X 4 X 4 FEET</p> <p>3925 06 MEDIUM BASKET OF PARTS-5 X 17 X 27 TO 8 X 18 X 61 INCHES</p>

# OFFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	599	MAA	SCLCC44	SCLCCXX	VARIABLE	<p>COMPONENT, CLEAN WITH VACUUM</p> <p>STARTS=WITH REACH TO VACUUM HOSE</p> <p>INCLUDES=ALL THE MOTIONS NECESSARY TO GET HOSE AND TURN VACUUM ON, UNCOIL VACUUM HOSE, GET EXTENSION, CONNECT EXTENSION, VACUUM SURFACE TO REMOVE WATER AND LOOSE PAINT, DISCONNECT EXTENSION, ASIDE EXTENSION, COIL AND ASIDE HOSE, TURN VACUUM OFF</p> <p>ENDS=WITH HOSE COILED AND VACUUM OFF</p> <p>CONDITIONS=COMPLEX, AN AREA WITH OBSTRUCTIONS SUCH AS RIRS, FORMERS, ETC., BUT ACCESSIBLE=VERY COMPLEX=OBSTRUCTED AREA CLEANED THROUGH AN OPENING SUCH AS ACCESS OR INSPECTION DOORS=APPLIES TO INVISIBLE VACUUM, TYPE AC, MODEL 809B=WALK TO GET HOSE AND EXTENSION NOT INCLUDED</p> <p>2166 CASE 01 VACUUM COMPLEX SURFACE=FIRST SQUARE FOOT</p> <p>449 02 VACUUM COMPLEX SURFACE=EACH ADDITIONAL SQUARE FOOT</p> <p>2606 03 VACUUM VERY COMPLEX SURFACE=FIRST SQUARE FOOT</p> <p>661 04 VACUUM VERY COMPLEX SURFACE=EACH ADDITIONAL SQUARE FOOT</p>
FFE	599	MAA	OIGSRL4	SCLPCXX	VARIABLE	<p>PART, BRUSH OFF PAINT IN THINNER</p> <p>STARTS=WITH REACH TO GET PART</p> <p>INCLUDES=ALL THE MOTIONS NECESSARY TO GET PART AND HOLD IN THINNER, GET LARGE BRUSH AND BRUSH PART IN THINNER WITH PRESSURE, ASIDE LARGE BRUSH AND GET SMALL BRUSH, BRUSH REMAINING AREA, ASIDE SMALL BRUSH AND GET RAG, WIPE PART DRY AND ASIDE RAG, INSPECT PART (VISUAL), ASIDE PART</p> <p>ENDS=WITH ASIDE PART</p> <p>CONDITIONS=PAINT REMOVER HAS BEEN APPLIED PRIOR TO THIS OPERATION</p> <p>1493 CASE 01 PART=2.5 TO 10 POUNDS</p> <p>1057 02 PART=LESS THAN 2.5 POUNDS</p>
FFE	599	MAA	OIGCHO2	SCLPCXX	VARIABLE	<p>PART, CLEAN WITH SOLVENT AND BRUSH</p> <p>STARTS=WITH REACH TO GET PART(S)</p> <p>INCLUDES=ALL THE MOTIONS NECESSARY TO GET PART(S) AND PLACE ON WORKBENCH, PUT ON FACE SHIELD AND GLOVES, GET PART AND BRUSH, SIT, HOLD PART AND BRUSH IN SOLVENT TANK, BRUSH TO CLEAN RUST OR CORROSION FROM PART, STAND, ASIDE PART AND BRUSH, REMOVE AND ASIDE GLOVES AND FACE SHIELD</p> <p>ENDS=WITH REMOVE AND ASIDE FACE SHIELD</p> <p>CONDITIONS=DOES NOT INCLUDE WALKING TO GET PART OR TO AND FROM TANK</p> <p>1982 CASE 01 CLEAN FIRST PART=16 TO 25 SQUARE INCHES</p> <p>1271 02 CLEAN EACH ADDITIONAL PART=16 TO 25 SQUARE INCHES</p> <p>1742 03 CLEAN FIRST PART=NINE TO 16 SQUARE INCHES</p> <p>1031 04 CLEAN EACH ADDITIONAL PART=NINE TO 16 SQUARE INCHES</p> <p>1502 05 CLEAN FIRST PART=FOUR TO NINE SQUARE INCHES</p> <p>791 06 CLEAN EACH ADDITIONAL PART=FOUR TO NINE SQUARE INCHES</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	JMMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFE	599	MAB	OTGCG06	SCLPH01	555	PART, WASH IN TANK WITH BRUSH STARTS-WITH REACH TO TANK COVER HANDLE INCLUDES-ALL THE MOTIONS NECESSARY TO RAISE TANK COVER, OPEN VALVE, GET PART, DIP IN FLUID, GET BRUSH, DIP BRUSH IN FLUID, WIPE PART CLEAN WITH BRUSH, REMOVE PART AND BRUSH FROM FLUID AND ASIDE, REACH TO AGITATOR VALVE AND CLOSE, RELEASE VALVE, REACH AND GET TANK LID HANDLE, CLOSE LID, RELEASE LID HANDLE ENDS-WITH LID CLOSED, HANDLE RELEASED CONDITIONS-TANK LID WEIGHS TO 10 POUNDS
FFE	599	MAB	OTGSRL2	SOPPOXX VARIABLE	181 154	PART, DIP IN SOLUTION (PAINT REMOVER) STARTS-WITH REACH TO GET PART INCLUDES-ALL THE MOTIONS NECESSARY TO PICK UP PART, PLACE PART IN SOLUTION, GET PART FROM SOLUTION, SHAKE TO REMOVE RESIDUE FROM PART, ASIDE PART ENDS-WITH ASIDE PART CONDITIONS-TANK PARTIALLY FULL OF PAINT REMOVER CASE 01 PART-2.5 TO 10 POUNDS 02 PART-LESS THAN 2.5 POUNDS
FFD	599	MAB	GECMC9X	SJPDOXX VARIABLE	399 464	DOORS (BASKET-HINGED, DOUBLE, SWINGING), OPEN AND CLOSE STARTS-WITH REACH TO LATCH INCLUDES-ALL THE MOTIONS NECESSARY TO UNLATCH DOOR(S) AND SWING FIRST DOOR OPEN, WALK TO SECOND DOOR AND SWING OPEN, GET FIRST DOOR AND SWING TO CLOSE, WALK TO SECOND, GET AND SWING TO CLOSE, ALIGN DOORS, PUSH SHUT AND SWING LATCH INTO EYE ENDS-WITH DOORS FULL OPEN OR CLOSED AND LATCHED CONDITIONS-5X5 FOOT BASKET CASE 01 OPEN 02 CLOSE
FFD	599	MAB	GECCHRS	SJPGP01	311	GUN (SPRAY, RINSE), PREPARE TO USE STARTS-WITH REACH TO VALVE ON SPRAY GUN INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP SPRAY GUN VALVE (WHEEL), TURN TWO REVOLUTIONS TO OPEN, GET SPRAY GUN AND POSITION FOR USE, PLACE GUN ASIDE, GRASP AND TURN VALVE WHEEL TWO REVOLUTIONS TO CLOSE, RELEASE VALVE ENDS-WITH RELEASE VALVE
FFD	599	MAB	GECCHS2	SJPGP02	440	GUN (STEAM), PREPARE TO USE STARTS-WITH SIDESTEP TO STEAM VALVE (ONE STEP) INCLUDES-ALL THE MOTIONS NECESSARY TO SIDESTEP AND GRASP VALVE WHEEL, TURN WHEEL TWO REVOLU- TIONS TO OPEN, GET STEAM GUN, STEP BACK (TWO STEPS), CHANGE HANDS WITH GUN, STEP FORWARD (TWO STEPS), PLACE GUN IN SLOT IN GRATING, PLACE GUN ASIDE, GRASP VALVE WHEEL AND TURN TWO REVOLU- TIONS TO CLOSE ENDS-WITH STEAM VALVE CLOSED, RELEASED
FEA	599	MAB	SCLVCO1	SJPPP01	937	PART(S), PREPARE TO CLEAN WITH VARSOL STARTS-WITH REACH TO GOGGLES INCLUDES-ALL THE MOTIONS NECESSARY TO GET AND PUT ON GOGGLES, GET PART OR BASKET AND PLACE ASIDE IN SPRAY BOOTH, TURN FROM SPRAY BOOTH, PUT ON GLOVES, START EXHAUST FAN, GET AND ASIDE SPRAY GUN, GET AND ASIDE AIR GUN, GET PART OR BASKET, TURN AND ASIDE TO WORKBENCH, REMOVE GOGGLES, REMOVE GLOVES, TURN OFF EXHAUST FAN ENDS-WITH PART OR BASKET ASIDE, GLOVES REMOVED CONDITIONS-APPLIES TO SUCTION TYPE, VARSOL-AIR SPRAY WASH, AIR DRY, EQUIVALENT TO PAASCHE MODEL NUMBER SP L-4-DOES NOT INCLUDE TIME TO WASH OR DRY PART-DOES NOT INCLUDE WALKING

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATE SOURCE	CCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMO VALUE	OPERATION/ELEMENT DESCRIPTION
FF	599	FUA	DIGCG08	SCLPC07	1800	PART,CLEAN WITH PRESSURE SPRAY OF CLEANING AGENT STARTS-WITH REACH TO GET PART INCLUDES-ALL THE MOTIONS NECESSARY TO GET PART AND POSITION TO SPRAY NOZZLE,TURN SWITCH ON, PLACE FOOT ON FOOT PEDAL AND DEPRESS,SPRAY PART,REMOVE FOOT FROM PEDAL,TURN OFF SWITCH, PLACE PART ON WORK BENCH ENDS-WITH PART ASIDE CONDITIONS-1667 TMS SPRAY TIME IS INCLUDED-WALKING AND TURNS AT WORK AREA NOT INCLUDED
FFD	599	TCA	GECCHRB	SCLPRO1	7327	PARTS(IN BASKET),RINSE(SPRAY) STARTS-WITH REACH TO SPRAY VALVE TO OPEN INCLUDES-ALL THE MOTIONS NECESSARY TO TURN ON SPRAY VALVE(WHEEL)(TWO REVOLUTIONS),GET SPRAY GUN AND SPRAY PARTS IN BASKET TO RINSE,ASIDE SPRAY GUN,CLOSE VALVE ENDS-WITH GUN ASIDE,VALVE CLOSED CONDITIONS-TIME IS TO SPRAY RINSE A SMALL BASKET OF PARTS-PARTS CLOSE TOGETHER-COMPLEX SURFACES
FFD	599	TBA	GECCHRB	SCLPRO2	1710	PARTS(IN BASKET),RINSE(SPRAY) STARTS-WITH REACH TO GET HOSE NOZZLE INCLUDES-ALL THE TIME AND MOTIONS NECESSARY TO GET NOZZLE,POINT NOZZLE AT BASKET,TURN ON SPRAY,RINSE BASKET OF PARTS,TURN SPRAY OFF, ASIDE NOZZLE ENDS-WITH ASIDE NOZZLE CONDITIONS-PARTS IN 5X5 FOOT BASKET OVER VAT-PARTS LOOSELY PLACED IN BASKET-SIMPLE SURFACES-TIME IS PER BASKET OF PARTS
FFE	599	MBA	DIGSRL1	SCLPSXX	VARIABLE	PAINT,STRIP FROM PART STARTS-WITH REACH TO GET PART INCLUDES-ALL THE MOTIONS NECESSARY TO GET PART AND DIP IN PAINT REMOVER,REMOVE PART AND SHAKE TO REMOVE RESIDUE,ASIDE PART,GET PART AND HOLD IN PRESSURE SPRAY,TURN PART SO THAT ALL AREAS ARE SPRAYED,SHAKE OFF RESIDUE,ASIDE PART,GET PART AND HOLD IN THINNER,GET LARGE BRUSH AND BRUSH PART TO REMOVE PAINT,ASIDE BRUSH,GET SMALL BRUSH AND BRUSH OFF REMAINING AREA OF PART,ASIDE BRUSH,GET RAG AND WIPE PART DRY, ASIDE RAG AND PART ENDS-WITH ASIDE PART CONDITIONS-PAINT REMOVER TANK IS PARTIALLY FULL-NO WALKING IN CONNECTION WITH THIS OPERATION IS INCLUDED CASE 01 PART-2.5 TO 10 POUNDS CASE 02 PART-LESS THAN 2.5 POUNDS
FFE	599	MBA	OITITKI	SCLPS03	1452	PAINT,STRIP FROM INSTRUMENT CASE STARTS-WITH REACH TO INSTRUMENT CASE IN BASKET OF CASES INCLUDES-ALL THE MOTIONS NECESSARY TO GET ONE CASE FROM BASKET,GET BRUSH,CLEAN CASE WITH BRUSH,ASIDE BRUSH,GET WIPING RAG,GET AND OPEN SOLVENT CONTAINER,WET TOWEL,ASIDE CONTAINER, MOVE WET TOWEL TO SURFACE AND CLEAN SURFACE, ASIDE WET TOWEL,GET DRY TOWEL AND WIPE SURFACE,CLOSE AND ASIDE SOLVENT CONTAINER, VISUALLY INSPECT CASE,ASIDE CASE TO TRAY ENDS-WITH ASIDE CASE CONDITIONS-CASES HAVE BEEN REMOVED FROM DRYER IN A BASKET-CLEAN AREA TO ONE SQUARE FOOT-REMOVE LOOSE PAINT



DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DMMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FEF	599	MAA	OIGCP01	SJPPP02	787	PART, PREPARE TO TANK CLEAN STARTS-WITH REACH TO GET PART(S) TO BE CLEANED INCLUDES-ALL THE MOTIONS NECESSARY TO PICK UP PART, PLACE PART ON WORKBENCH, SIT IN CHAIR, PUT ON FACE SHIELD, PUT ON GLOVES, GET PART AND DIP INTO SOLVENT IN TANK, REMOVE AND ASIDE PART, TAKE OFF AND ASIDE GLOVES AND FACE SHIELD, STAND UP ENDS-WITH STAND UP
NO	599	MAO	LTUMIG1	SJPRMX	VARIABLE	ROCKS/COMPOUND, MOVE FROM DRUM TO CONTAINER STARTS-WITH REACH TO GET SCOOP INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP, DIP INTO DRUM AND GET SCOOP LOAD, REMOVE LOAD FROM DRUM AND TO CONTAINER, DUMP SCOOP LOAD IN CONTAINER, RETURN SCOOP TO DRUM AND RELEASE ENDS-WITH RELEASE SCOOP IN DRUM CASE 01 FIRST OR ONLY SCOOP LOAD 02 EACH ADDITIONAL SCOOP LOAD
					234 197	
MAA	599	MAA	SCLCC49	SJPSS01	1518	STEAM UNIT, SET UP AND SECURE STARTS-WITH REACH TO PLUG INCLUDES-ALL THE MOTIONS NECESSARY TO PLUG IN AND UNPLUG POWER CORD, OPEN AND CLOSE TWO GLOBE TYPE STEAM VALVES (NOT MORE THAN SEVEN TURNS EACH), OPEN AND CLOSE WATER VALVE (LEVER TYPE OR PETCOCK, TURN NOT MORE THAN 180 DEGREES), OPEN AND CLOSE SOAP VALVE (PUSH TYPE SWITCH), OPEN AND CLOSE WATER TANK VALVE (LEVER TYPE OR PETCOCK, TURN NOT MORE THAN 180 DEGREES) ENDS-WITH PULL POWER PLUG CONDITIONS-DOES NOT INCLUDE WALKING TO OR FROM MACHINE OR TO OR FROM POWER CORD PLUG
NO	599	MAA	LTUM-1N	MNFDL01	105	DOOR (TUMBLER), LOCK OR UNLOCK STARTS-WITH REACH TO DOOR LATCH INCLUDES-ALL THE MOTIONS NECESSARY TO REACH TO AND HIT DOOR LATCH WITH FIRST ONE HAND AND THEN THE OTHER TO LOOSEN OR TIGHTEN LATCH, GRASP LATCH IN BOTH HANDS AND MOVE TO LOOSEN OR TIGHTEN, RELEASE LATCH ENDS-WITH RELEASE LATCH CONDITIONS-HIT LATCH THREE TIMES WITH EACH HAND-DOOR IS 12 X 14 INCHES WITH 2 DOG LUCKS
NO	599	MAO	LTUM-1R	MOHDP01	49	DOOR (TUMBLER), POSITION ON TUMBLER STARTS-WITH DOOR IN HANDS INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE DOOR TO MACHINE, POSITION DOOR ON MACHINE, MOVE OTHER END OF DOOR INTO PLACE, POSITION, RELEASE DOOR ENDS-WITH RELEASE DOOR CONDITIONS-DOOR IS 12 X 14 INCHES
NO	599	MAO	LTUM-1Q	MOHDP01	39	DOOR (TUMBLER), REMOVE STARTS-WITH REACH TO DOOR HANDLE INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP DOOR HANDLE, DISENGAGE DOOR AND MOVE DOOR ASIDE ENDS-WITH DOOR MOVED ASIDE, STILL IN HAND CONDITIONS-DOOR IS 12 X 14 INCHES